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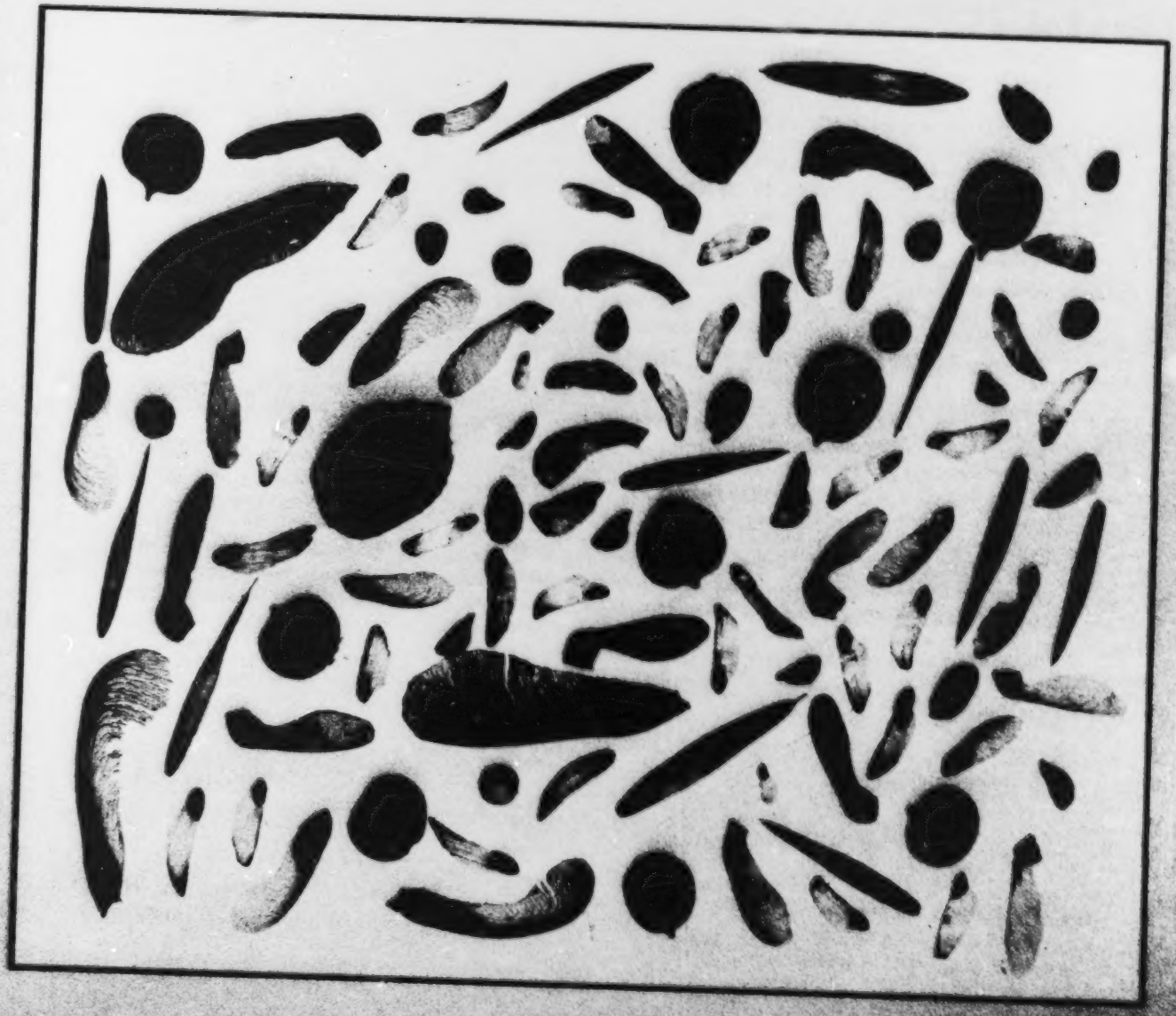
Canadian Forestry Service / Service canadien des forêts

A list of seed in the Canadian Forestry Service Seed Bank
Une liste des semences de la Banque de semences du Service canadien des forêts

P.S. Janas

Information Report/Rapport d'information PI-X-58 E/F



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A LIST OF SEED IN THE CANADIAN FORESTRY SERVICE SEED BANK

UNE LISTE DES SEMENCES DE LA BANQUE DE SEMENCES DU SERVICE CANADIEN DES FORÊTS

P.S. Janas

Information Report

Rapport d'information

PI-X-58(E/F)
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Petawawa National Forestry Institute
Canadian Forestry Service

Institut forestier national
de Petawawa
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A LIST OF SEED IN THE CANADIAN FORESTRY SERVICE SEED BANK

ABSTRACT

Information is given on the native and exotic forest tree and shrub seed available for research purposes from the Canadian Forestry Service Seed Bank at the Petawawa National Forestry Institute. It supersedes Information Report PI-X-39E/F. Reference is made to the procurement of seed and the maintenance of seed quality.

Introduction

Forest research is long term and often costly. It is, therefore, important that only seed of known origin and quality be used for species trials, tree breeding, genetics studies, and other silvicultural experiments. To this end, the National Tree Seed Centre at the Petawawa National Forestry Institute holds seed in cold storage at the seed bank, and procures from other establishments seed of a wide range of species and geographic origins. Information on indigenous and exotic forest tree and shrub seed available to researchers from the seed bank is provided in this report.

Seed procurement

The seedlots described in the attached list have been procured in several ways. Some collections were made by staff at PNFI and others by cooperators in the Canadian Forestry Service regional research centres, provincial forest services, forest industries, and other federal agencies. Several seedlots were procured through exchange with foreign

UNE LISTE DES SEMENCES DE LA BANQUE DE SEMENCES DU SERVICE CANADIEN DES FORÊTS

RÉSUMÉ

Ce rapport fournit des renseignements sur les semences d'arbres et arbustes, indigènes ou exotiques, que l'on peut se procurer pour fins de recherches à la Banque de semences du Service canadien des forêts, à l'Institut forestier national de Petawawa. Il remplace le rapport d'information PI-X-39E/F. La façon de procurer les semences et de maintenir leur qualité est indiquée.

Introduction

Comme la recherche forestière est une activité de longue haleine et souvent coûteuse, il est important que seules les semences d'origine et de qualité connues servent aux essais sur les espèces, à l'amélioration génétique des arbres, et aux autres expériences de nature sylvicole. Pour ce faire, le Centre national de semences forestières à l'IFNP veille à garder des semences dans les chambres frigorifiques, et obtient de différents organismes des graines d'essences très variées et de pays très divers. Le présent rapport montre comment les chercheurs, par l'intermédiaire de la banque de semences, peuvent se procurer ces semences d'arbres et arbustes forestiers indigènes et exotiques.

Obtention des semences

Les lots de semences décrits dans la liste ci-jointe ont été obtenus de plusieurs façons. Quelques-uns ont été fournis par l'IFNP, d'autres par des collaborateurs des centres de recherches régionaux du Service canadien des forêts, et par ceux des services forestiers provinciaux, des industries forestières et d'autres organismes fédéraux. Des lots

agencies or purchased from seed dealers in Canada and abroad.

The control of seed origin is maintained by collecting from natural stands at identified locations only, or from planted trees of known origin. The control and identification of seed origin have been described by Wang (1973).

Unless otherwise requested, all seed is collected in fair to good crop years to ensure high quality and an appropriate genetic sample of the population.

Seed quality

Proper control of seed quality will minimize confounding influences and increase confidence in research results. Control of seed quality at the National Tree Seed Centre starts at the time of collection and is continuous through handling and storage of cones and fruit, and processing, testing, and storage of seed (Wang 1973). Seedlots in the seed bank are suitable for provenance research, for example, and in many cases were collected in collaboration with geneticists in the Canadian Forestry Service.

Using the seed list

Species included in the seed bank list and the corresponding number of seedlots for each are provided in the "Species listing" section.

Of the species represented in the bank, only those whose seed have demonstrated the ability to retain viability over a number of years of storage in the facilities available

proviennent d'échanges avec des organismes étrangers ou furent achetés de commerçants au Canada ou à l'extérieur.

Le contrôle de l'origine des semences est assuré en récoltant les semences uniquement dans des peuplements naturels dont la localisation est connue ou sur des arbres plantés d'origine aussi connue. Les méthodes de surveillance et d'identification de l'origine des semences ont été décrites par Wang (1973).

Sauf avis contraire, toutes les semences sont récoltées au cours d'années où la production est de moyenne à bonne, afin d'assurer la qualité et d'obtenir un échantillon représentatif de l'ensemble des gènes de la population.

Qualité des semences

Le contrôle de la qualité des semences permet de réduire au minimum les sources d'erreurs et d'augmenter d'autant la fiabilité des résultats de recherches. Au Centre national de semences forestières, ce contrôle s'exerce dès la récolte et se poursuit tout au long du processus de manutention, de traitement et d'entreposage des cônes, des semences ou des fruits (Wang, 1973). Les lots de la banque de semences constituent entre autre un matériel biologique de choix pour la recherche sur les provenances. Dans plusieurs cas ils ont été préparés en collaboration avec des généticiens du Service canadien des forêts.

Utilisation de la liste de semences

Les essences dont les semences sont en banque apparaissent dans la section "Liste des essences", avec chacune leur numéro correspondant.

Seules les espèces dont les semences ont démontré qu'elles pouvaient survivre un certain nombre d'années en entreposage, figurent

are listed. Seed of those species that are difficult to store (e.g., Acer saccharinum, Juglans nigra, and Quercus spp.) can be provided by special collection upon request. The list is arranged in alphabetical order by genus, species, and variety. Nomenclature is based on Native Trees of Canada (Hosie 1979) for native species and, as far as possible, the Manual of cultivated trees and shrubs hardy in North America (Rehder 1940) for exotic species.

To assist in the selection of seedlots, information on year of collection, location (or a brief description of source in the case of plantation or seed orchard stock), collection type (see legend for details), latitude, longitude, and elevation is given in the list. Information on 1000-seed weight and germination is presented when available.

Persons requesting seed for research purposes should specify species, seed bank number, and amount of seed required. Amount required in grams can be obtained using the formula:

$$q = \frac{(\text{1000 seed weight}) \times (\text{\# seedlings})}{10\ (\text{\% germination})}$$

where q is amount of seed in grams.

Alternative selections should be provided in the event that some seedlots are no longer available.

Acknowledgments
This publication was made possible with the assistance and cooperation

sur la liste. Dans le cas d'espèces dont les semences sont difficiles à entreposer (par ex. Acer saccharinum, Juglans nigra et Quercus spp.) une récolte spéciale pourra être faite sur demande. Les semences sont d'abord classées par ordre alphabétique selon le genre, l'espèce et la variété. La nomenclature adoptée est celle des Arbres indigènes du Canada (Hosie, 1980) en ce qui concerne les espèces indigènes et, dans la mesure du possible, celle du Manual of cultivated trees and shrubs hardy in North America (Rehder, 1940) pour les espèces exotiques.

Afin de faciliter le choix des lots de semences, la liste indique l'année et le lieu de la récolte (ou une brève description de l'origine des graines si elles proviennent d'une plantation ou d'un verger à graines), le type de récolte (voir la légende de la liste de semences) ainsi que sa latitude, sa longitude et son altitude. Lorsque c'est possible, le poids de 1000 graines et le taux de germination y sont indiqués.

Ceux qui demandent des semences pour la recherche doivent préciser l'essence avec son numéro en banque et la quantité. On peut calculer la quantité nécessaire en grammes à l'aide de la formule suivante:

$$q = \frac{(\text{masse de 1000 semences}) \times (\text{n}^{\text{bre}}\ \text{de semis})}{10\ (\text{\% de germination})}$$

où q représente la quantité de semences en grammes.

On devrait spécifier d'autres choix au cas où certains lots seraient épuisés.

Remerciements
Cette publication a été rendue possible grâce à la coopération et

of the following staff of the Seed Bank and Services Project: Mr. E.L. Gilchrist, technician in charge of seed collection and processing; Mrs. B. Kelley, technician responsible for seed testing.

l'aide des employés suivants de la Banque de semences et des Services aux clients: M. E.L. Gilchrist, technicien chargé de récolter et traiter les semences; et Mme B. Kelley, technicienne chargée des tests de semences.

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Glossary/Glossaire

blue needles	aiguilles bleues
bog	marais
clay	argile
exotic	exotique
fair growth	croissance moyenne
fair site	site moyen
first	premier
from	d'après
good site quality	bonne qualité stationnelle
gravel	gravier
kiln	séché au four
large zone	vaste zone
loam/loamy soil	terreau
mature stand	peuplement à maturité
no kiln	non pas séché au four
old & new cones	cônes arrivés à maturité & jeunes cônes
on steep hill	situé sur une pente raide
peat	tourbe
poor site	site pauvre
possible hybrid	peut-être un hybride
recd from	obtenu de
rocky	rocheux
rodent damage	endommagement dû aux rongeurs
sandy	sablonneux
second	deuxième
silt	limon
30% slope	30 % pente
soc	verger à graines
superior xmas tree	meilleur arbre de Noël
1st coll	1re récolte
third	troisième
trees	arbres

very blue colour	couleur bleu
wet site	site humide
weevil resist	résistant aux charançons
y/yrs	an(s)

Species listing/Liste des essences

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES	NUMBER OF SEEDLOTS PER SPECIES / NOMBRE DE LOTS DE SEMENCES PAR ESSENCE
ABIES ALBA (European silver fir)	2
ABIES AMABILIS [amabilis (Pacific silver) fir]	1
ABIES BALSAMEA (balsam fir)	25
ABIES BALSAMEA var. PHANEROLEPIS	1
ABIES CONCOLOR [white (Colorado) fir]	1
ABIES GRANDIS (grand fir)	1
ABIES LASIOCARPA (alpine fir)	6
ABIES NEPHROLEPIS	1
ACER PENSYLVANICUM (striped maple; moosewood)	1
ACER RUBRUM [red (soft) maple]	24
ACER SACCHARUM [sugar (hard) maple]	3
ACER SPICATUM (mountain maple)	1
ALNUS CORDATA (Italian alder)	2
ALNUS CRISPA (green alder)	129
ALNUS GLUTINOSA (black alder)	8
ALNUS HIRSUTA	1
ALNUS INCANA [grey (European) alder]	4
ALNUS NEPALENSIS	1
ALNUS RUBRA [red (Oregon) alder]	61
ALNUS RUGOSA (speckled alder)	160
ALNUS SINUATA (sitka alder)	119
ALNUS TENUIFOLIA (mountain alder)	24
BETULA ALLEGHANIENSIS (yellow birch)	34
BETULA OCCIDENTALIS [water (black) birch]	1
BETULA PAPYRIFERA [white (paper) birch]	12
BETULA PENDULA [silver (weeping) birch]	13
BETULA PLATYPHYLLA	2
BETULA PUBESCENS (downy birch)	6
BETULA VERRUCOSA (European white birch)	1
CARPINUS CAROLINIANA (blue-beech; hornbeam)	1
CATALPA SPECIOSA (catalpa)	1
FAGUS GRANDIFOLIA (American beech)	2
FRAXINUS AMERICANA (white ash)	10
FRAXINUS CHINENSIS	1
FRAXINUS PENNSYLVANICA (red ash)	36
LARIX DECIDUA (European larch)	7
LARIX GMELINI (Dahurian larch)	4
LARIX GMELINI var. OLGENSIS	2
LARIX LARICINA (tamarack; eastern larch)	20
LARIX OCCIDENTALIS (western larch)	1
LARIX OLGENSIS	1
LARIX SIBIRICA (Siberian larch)	1
PAULOWNIA FARGESII	1
PICEA ABIES (Norway spruce)	25
PICEA ENGELMANNII (Engelmann spruce)	3
PICEA GLAUCA (white spruce)	742
PICEA GLEHNII (Sakhalin spruce)	1
PICEA JEZOENSIS var. MICROSPERMA	1
PICEA KORAIENSIS	3
PICEA KOYAMAE (Koyama spruce)	1
PICEA MARIANA (black spruce)	40
PICEA PUNGENS var. GLAUCA (Colorado blue spruce)	1
PICEA RUBENS (red spruce)	24

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES	NUMBER OF SEEDLOTS PER SPECIES / NOMBRE DE LOTS DE SEMENCES PAR ESSENCE
PICEA SCHRENKIANA (Schrenk's spruce)	2
PICEA SITCHENSIS (sitka spruce)	23
PICEA WILSONII	2
PINUS BANKSIANA (jack pine)	74
PINUS CARIBAEA var. CARIBAEA	2
PINUS CARIBAEA var. HONDURENSIS	1
PINUS CONTORTA var. CONTORTA (shore pine)	3
PINUS CONTORTA var. LATIFOLIA (lodgepole pine)	74
PINUS CONTORTA var. MURRAYANA	1
PINUS DENSIFLORA (Japanese red pine)	1
PINUS KESIYA	1
PINUS KORAIENSIS (Korean pine)	1
PINUS MONTICOLA [western white (silver) pine]	3
PINUS NIGRA var. KOEKELARE	1
PINUS OOCARPA	3
PINUS PONDEROSA [ponderosa (western yellow) pine]	4
PINUS RESINOSA [red (Norway) pine]	48
PINUS RIGIDA (pitch pine)	1
PINUS STROBIFORMIS (southwestern white pine)	1
PINUS STROBUS [eastern white (Weymouth) pine]	118
PINUS SYLVESTRIS [Scotch (Scots) pine]	37
PINUS SYLVESTRIS var. MONGOLICA	3
PINUS SYLVESTRIS var. RIGENSIS	1
PINUS THUNBERGII (Japanese black pine)	2
PINUS WALLICHIANA [Himalayan (Bhutan) pine]	1
PLADYCLADUS ORIENTALIS	1
POPULUS GRANDIDENTATA (largetooth aspen)	5
POPULUS TREMULOIDES (trembling aspen)	5
PSEUDOTSUGA MENZIESII (douglas-fir)	17
PSEUDOTSUGA MENZIESII var. GLAUCA (interior douglas-fir)	2
ROBINIA PSEUDOACACIA (black locust)	2
SORBUS AMERICANA (American mountain ash)	1
THUJA OCCIDENTALIS (eastern white cedar)	2
THUJA PLICATA (western red cedar)	4
TSUGA CANADENSIS (eastern hemlock)	3
TSUGA MERTENSIANA (mountain hemlock)	2
ULMUS AMERICANA [white (American) elm]	3
ULMUS GLABRA (Scotch elm)	1
ULMUS LAEVIS (European white elm)	1
TOTAL NUMBER OF SEEDLOTS IN SEEDBANK / NOMBRE TOTAL DE LOTS DE SEMENCES DANS LA BANQUE	2031

LEGEND FOR PNFI SEED LIST
LÉGENDE POUR LA LISTE DE SEMENCES DE L'IFNP

Column Name Nom de la colonne	Meaning Signification
SEED BANK NUMBER	. Seed bank number assigned to an individual seedlot by the National Tree Seed Centre . Numéro assigné à un lot de semences en banque par le Centre national de semences forestières
NURSERY NUMBER	. Seedlot number in seed index system maintained by Tree Breeding group at PNFI . Numéro assigné à un lot de semences dans le système d'indexation géré par le groupe de reproduction des arbres de l'IFNP
YEAR COLL	. Year of collection . Année de la récolte
PROVENANCE	. Usually the name of the nearest identifiable geographic location to a collection site . Habituellement, le nom de l'endroit géographique identifiable situé le plus près du lieu de la récolte
PROV	. Canadian province or American state (consult Appendix A for full name) . Province canadienne ou État américain (consulter l'annexe A pour le nom complet)
CTRY	. Official country code (see Appendix B) . Code officiel du pays (voir l'annexe B)
LAT	. Latitude of collection in degrees and minutes . Latitude du lieu de la récolte en degrés et minutes
LONG	. Longitude of collection in degrees and minutes . Longitude du lieu de la récolte en degrés et minutes
ELEV	. Elevation of collection in metres . Altitude du lieu de la récolte en mètres
COLL TYPE	. Collection type: 'S' refers to collection from single tree; 'B' indicates bulked or general collection from more than one tree, ( ) gives number of trees from which bulked collection was made; 'CP' is a controlled pollination cross; 'SP' refers to self-pollination; 'SQ' indicates squirrel collection

. Type de récolte: 'S' signifie la récolte sur un seul arbre; 'B' indique une récolte générale ou en grande quantité sur plus d'un arbre, ( ) indique le nombre d'arbres sur lesquels on a récolté les semences; 'CP' signifie le croisement par pollinisation dirigée; 'SP' signifie l'autopollinisation; 'SQ' indique une récolte par des écureuils.

1000 SEED WEIGHT

. Average weight in grams of 1000 seeds
. Poids moyen (en grammes) de 1000 semences

YEAR TSTD

. Year of most recent germination test
. Année du test de germination le plus récent

% GERM

. Result from most recent germination test; if blank, no germination information is available
. Résultat du plus récent test de germination; un espace inoccupé signifie que l'on ne dispose pas de renseignements sur la germination

REMARKS

. 'ST...' identifies select tree from which collection was made

. 'ST...' identifie l'arbre sélectionné pour la récolte des semences

. 'V...' refers to PNFI clone number

. 'V...' renvoie au numéro de clone de l'IFNP

Seed list/Liste des semences

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
(1.100) ABIES ALBA (European silver fir)													
1.100-0080006.0		1983	GERARDMER		FRA	48.04	6.53E		N/A	43.96	84	38.5	VIA VERSEPUY
1.100-8380643.0		1983	MAFGERIDE MOUNTAINS		FRA	45.00	3.30E		N/A	46.74	84	28.5	VIA VERSEPUY
(1.200) ABIES AMABILIS (amabilis (Pacific silver fir)													
1.200-8370636.0		1983	TAYLOR RIVER	BC	CAN	49.19	125.28	250	B(10)	27.94	84	72.0	MATURE STAND
(1.300) ABIES BALSAMEA (balsam fir)													
1.300-6030290.0		1960	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	N/A	7.54	83	24.0	
1.300-6632380.0		1966	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.24	160	B	10.06	84	41.0	
1.300-7034170.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	65	S	6.83	84	30.0	CRF,S.0141,11cm,6m
1.300-7034180.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S	7.82	84	31.0	CRF,S.0142,14cm,8m
1.300-7034190.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	74	S	7.48	84	59.0	CRF,S.0143,14cm,8m
1.300-7034220.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S	8.67	84	51.0	CRF,S.0146,12cm,8m
1.300-7034230.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S	8.76	84	58.0	CRF,S.0147,13cm,8m
1.300-7034240.0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S	8.96	84	27.0	CRF,S.0148,12cm,8m
1.300-7311360.0		1973	ACADIA FOR. EXP. STA.	NB	CAN	46.00	66.15	120	N/A	7.90	83	45.8	
1.300-7432000.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	9.09	83	59.5	13cm,11m
1.300-7432010.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.24	160	S	8.44	83	25.0	15cm,13m
1.300-7432030.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	10.10	83	62.0	15cm,11m
1.300-7432040.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	9.74	83	44.2	19cm,14m
1.300-7432060.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	8.06	83	33.5	13cm,10m
1.300-7432080.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	8.00	83	78.5	10cm,8m
1.300-7832260.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	11.15	83	69.0	ST.3591
1.300-7832270.0		1978	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.24	160	S	10.22	83	81.0	ST.3592
1.300-7832280.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	9.53	83	43.0	ST.3593
1.300-7832290.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	10.67	83	43.0	ST.3594
1.300-7832300.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	8.06	83	31.5	ST.3595
1.300-7931160.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	180	S	9.86	83	36.5	
1.300-7931180.0		1979	PETAWAWA NAT. FOR. INST	ONT	CAN	45.59	77.28	180	S	9.72	83	55.7	
1.300-7931190.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	180	S	9.74	83	59.2	
1.300-7931200.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	180	S	10.18	83	25.0	
1.300-8200572.0		1982	CORMACK	NFLD	CAN	49.24	57.18	90	B	11.76	85	91.0	
(1.350) ABIES BALSAMEA var PHANEROLEPIS													
1.350-7003740.0		1970	GRAND FALLS	NFLD	CAN	48.55	55.51	110	B(2)	8.83	83	47.5	15-25cm,5-11m,25y
(1.400) ABIES CONCOLOR (white (Colorado) fir)													
1.400-8480010.0		1984	MESA ALTA	NM	USA	35.30	106.00		N/A	43.24	84	55.0	VERY BLUE COLOUR
(1.500) ABIES GRANDIS (grand fir)													
1.500-8470994.0		1984	IRON RIVER, VANCOVER IS	BC	CAN	49.45	125.00	25	B(50)	20.20	85	61.7	
(1.600) ABIES LASIOCARPA (alpine fir)													
1.600-7473110.0		1974	MONASHEE MOUNTAINS	BC	CAN	51.05	118.35	1830	B	9.06	83	52.5	
1.600-7473120.0		1974	SHUSWAP LAKE	BC	CAN	50.58	119.30	1370	B	10.78	83	54.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
1.600-7473870.0		1974	MANNING PROV. PARK	BC	CAN	49.05	120.45	1220	S	7.36	83	84.5	26cm, 9m
1.600-7477310.0		1974	MCGILLWRAY LAKE	BC	CAN	50.51	119.51	1448	B	10.00	83	37.0	
1.600-7971830.0		1979	HUDSONS BAY MOUNTAIN	BC	CAN	54.45	127.15	1130	B(6)	10.35	83	46.5	10-25cm, 6-15m
1.600-8270557.0		1982	DUCK LAKE	BC	CAN	49.07	124.39	1130	B(10)	13.74	85	60.5	23cm, 7-15m, 40-50y
(1.650) ABIES NEPHROLEPIS													
1.650-8380662.0		1983	ICHUN, HEILUNGKIANG PROV.		CHN	47.00	129.00E	250	N/A	8.26	85	46.5	
(2.450) ACER PENSYLVANICUM (striped maple; moosewood)													
2.450-8430049.0		1984	DENBIGH	ONT	CAN	45.09	77.10	300	B(2)	43.26	85	54.5	5-10cm, 3-6m
(2.600) ACER RUBRUM (red (soft) maple)													
2.600-7530080.0	10162.00	1975	CHALK RIVER	ONT	CAN	46 05	77.23	150	S	13.04	84	23.0	15cm, 11m
2.600-7530180.0		1975	KENORA	ONT	CAN	49.38	93.50	380	B(10)	9.41	85	38.0	5-10cm
2.600-7530190.0		1975	FORT FRANCES	ONT	CAN	48.53	93.00	365	B(11)	10.47	85	61.5	11-20m, 55-100y
2.600-7630170.0		1976	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.24	160	S	12.85	85	55.5	
2.600-7630190.0		1976	CHALK RIVER	ONT	CAN	46.03	77.23	150	S	9.43	84	82.0	
2.600-7720410.0		1977	LAUREAT	QUE	CAN	45.56	76.22	240	B	12.07	84	27.0	
2.600-7730040.0		1977	MALAHIDE TOWNSHIP	ONT	CAN	42.44	81.00	230	S	12.96	84	25.5	30cm, 20m
2.600-7930080.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.26	180	S	14.24	80	83.0	ST. 3739, 7cm, 7m
2.600-7930100.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	S	15.78	84	68.0	8m
2.600-7930110.0		1979	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	S	14.13	84	73.3	12m
2.600-8230070.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.24	150	B	11.54	82	55.5	RODENT DAMAGE
2.600-8230080.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	160	B	10.35	82	83.5	RODENT DAMAGE
2.600-8230090.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	150	B	10.42	82	67.0	RODENT DAMAGE
2.600-8230100.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	150	B	7.12	82	35.5	RODENT DAMAGE
2.600-8430013.0		1984	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	150	S	13.23	84	63.0	12cm, 12m
2.600-8430014.0		1984	HWY 17, P.N.F.I.	ONT	CAN	46.00	77.24	150	S	8.43	84	33.0	11cm, 7.5m
2.600-8430015.0		1984	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	150	S	17.90	84	61.0	9cm, 7.5m
2.600-8430016.0		1984	BASELINE ROAD, P.N.F.I.	ONT	CAN	45.59	77.25	180	S	19.20	84	33.0	9cm, 6m
2.600-8430017.0		1984	THOMAS'S FIELD, P.N.F.I.	ONT	CAN	45.59	77.27	190	S	15.50	84	57.5	39cm, 7.5m
2.600-8430018.0		1984	THOMAS'S FIELD, P.N.F.I.	ONT	CAN	45.59	77.27	190	S	12.34	84	38.0	11cm, 6.5m
2.600-8430019.0		1984	PETAWAWA NAT. FOR INST.	ONT	CAN	45.59	77.24	150	S	16.76	84	37.0	14cm, 6m
2.600-8430021.0		1984	FIRE TRAIL A, A.E.C.L.	ONT	CAN	46.04	77.25		S	19.32	84	36.0	
2.600-8430022.0		1984	FIRE TRAIL A, A.E.C.L.	ONT	CAN	46.04	77.26		S	12.24	84	48.0	10cm, 6m
2.600-8430024.0		1984	LOON LAKE, GRAVENHURST	ONT	CAN	44.55	79.25	215	S	17.60	84	45.5	6cm, 5m
(2.800) ACER SACCHARUM (sugar (hard) maple)													
2.800-8330022.0		1983	PELHAM TWP., FONTHILL	ONT	CAN	43.02	79.17	190	B(3)	84.73	84	67.0	45cm, 14-16m
2.800-8430050.0		1984	DENBIGH	ONT	CAN	45.09	77.10	300	S	102.12	84	68.0	40cm, 20m, 110y
2.800-8430054.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	B(5)	81.72	84	56.0	35-55cm, 14-18m
(2.900) ACER SPICATUM (mountain maple)													
2.900-8430043.0		1984	CHARLESTON LAKE	ONT	CAN	44.31	76.01	120	B(2)	17.21	85	91.0	2-3cm, 3m
(4.050) ALNUS CORDATA (Italian alder)													
4.050-8082030.0		1980	NAPOLI, CAMPANIA		ITA	40.39	14.30E	700	N/A	2.51	84	68.0	VIA DR STEENACKERS
4.050-8181340.0		1981	GERAARDSBERGEN		BEL	50.47	3.53E		S	3.55	84	86.0	VIA DR STEENACKERS

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
(4.100) ALNUS CRISPA (green alder)													
4.100-7931400.0	10978.00	1979	NIMITZ TOWNSHIP	ONT	CAN	47.38	83.15	460	B	.28	84	82.5	
4.100-8310558.0		1983	TANTALLON	NS	CAN	44.42	63.52	99	S	.20	84	21.0	2cm, 3m, 5y
4.100-8310559.0		1983	TANTALLON	NS	CAN	44.42	63.52	99	S	.29	85	49.0	1cm, 3m, 7y
4.100-8310560.0		1983	TANTALLON	NS	CAN	44.42	63.52	99	S	.29	84	23.0	2cm, 3m, 8y
4.100-8310562.0		1983	YARMOUTH	NS	CAN	43.55	66.55	30	B(25)	.27	85	21.0	1-3cm, 2-3m
4.100-8310564.0		1983	YARMOUTH	NS	CAN	43.55	66.55	30	S	.25	84	44.5	2cm, 3m, 4y
4.100-8310565.0		1983	YARMOUTH	NS	CAN	43.55	66.55	30	S	.34	84	51.5	1cm, 2m, 4y
4.100-8320554.0		1983	MISSISSIPPI RIVER	QUE	CAN	48.49	64.52	76	B(35)	.27	84	42.5	1-2cm, 2-4m
4.100-8320555.0		1983	MISSISSIPPI RIVER	QUE	CAN	48.49	64.53	130	B(25)	.25	84	32.5	0.5-2cm, 2-3m
4.100-8360544.0		1983	EDSON	ALTA	CAN	53.35	116.30		B(50)	.25	84	32.5	3-7cm, 1-3m
4.100-8360546.0		1983	OBED SUMMIT	ALTA	CAN	53.30	117.10		B	.34	84	50.0	2-3cm, 1-2m
4.100-8360547.0		1983	FORT ASSINIBOINE	ALTA	CAN	54.30	114.50		B	.35	84	65.0	2-3cm, 1-2m
4.100-8400857.0		1984	GRAND FALLS	NFLD	CAN	49.00	55.35	122	B(6)	.37	85	81.5	4.5-5cm, 2-3m
4.100-8400858.0		1984	CARMANVILLE	NFLD	CAN	49.25	54.20	15	B(7)	.40	85	99.0	4-5cm, 2-3m, 10-15y
4.100-8400859.0		1984	STEPHENVILLE	NFLD	CAN	48.18	58.36	61	S	.51	85	97.5	
4.100-8400860.0		1984	STEPHENVILLE	NFLD	CAN	48.12	58.36	61	B(8)	.46	85	97.5	
4.100-8410740.0		1984	MERIGOMISH	NS	CAN	45.35	62.27	76	S	.35	85	69.0	9-22cm, 1.9-3.5m
4.100-8410741.0		1984	MERIGOMISH	NS	CAN	45.35	62.27	76	S	.23	85	72.5	10-19cm, 2.1-3m, 5y
4.100-8410742.0		1984	MERIGOMISH	NS	CAN	45.35	62.27	76	B(3)	.36	85	83.5	.8-2.7cm, 2.6-3.7m
4.100-8410754.0		1984	AMHERST	NB	CAN	45.53	64.16	30	S	.37	85	96.0	1.8-2.5cm, 2.6-3.2m
4.100-8410755.0		1984	AMHERST	NB	CAN	45.53	64.16	30	S	.42	85	83.0	1.5-2.1cm, 2.6-3m
4.100-8410756.0		1984	AMHERST	NB	CAN	45.53	64.16	30	S	.29	85	75.0	.6-1.9cm, 1.8-3.1m
4.100-8410757.0		1984	AMHERST	NB	CAN	45.53	64.16	30	S	.40	85	100.0	.8-2.9cm, 2.2-3.6m
4.100-8410758.0		1984	AMHERST	NB	CAN	45.53	64.16	30	S	.39	85	91.5	1.5-2.5cm, 3-4m
4.100-8420609.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.33	85	96.0	5.1cm, 4.2m, 8y
4.100-8420610.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.30	85	76.0	3.8cm, 4.10m, 9y
4.100-8420611.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.36	85	95.5	3.9cm, 4.15m, 8y
4.100-8420612.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.41	85	86.5	4.3cm, 4.0m, 9y
4.100-8420613.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.38	85	100.0	3.5cm, 3.8m, 8y
4.100-8420614.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.43	85	88.0	4.1cm, 4.2m, 9y
4.100-8420615.0		1984	BERSIMIS	QUE	CAN	49.15	69.32	274	S	.34	85	81.5	3.8cm, 4m
4.100-8420625.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.39	85	71.5	1.4cm, 2.9m, 7y
4.100-8420626.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.29	85	54.0	1.6cm, 3.0m, 7y
4.100-8420627.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.37	85	72.5	1.2cm, 2.5m, 6y
4.100-8420628.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.26	85	23.5	1.3cm, 2.6m, 7y
4.100-8420629.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.29	85	50.5	1.5cm, 2.95m, 7y
4.100-8420630.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.32	85	83.5	1.4cm, 2.7m, 6y
4.100-8420631.0		1984	REMIGNY	QUE	CAN	47.47	79.15	274	S	.34	85	73.5	1.3cm, 2.85m, 7y
4.100-8420659.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.30	85	89.0	1.2cm, 2.0m, 5y
4.100-8420660.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.35	85	86.0	1.1cm, 2.1m, 5y
4.100-8420661.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.53	85	88.0	1.0cm, 2.0m, 5y
4.100-8420662.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.46	85	83.5	1.0cm, 2.05m, 5y
4.100-8420663.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.36	85	80.5	1.0cm, 1.9m, 5y
4.100-8420664.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.36	85	89.5	1.3cm, 2.25m, 6y
4.100-8420665.0		1984	CHAPAIS	QUE	CAN	49.22	74.02	411	S	.32	85	91.0	1.2cm, 2.05m, 5y
4.100-8420666.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.57	85	100.0	4.0cm, 4.7m, 9y
4.100-8420667.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.65	85	98.0	5.0cm, 4.0m, 10y
4.100-8420668.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.47	85	97.0	3.0cm, 3.2m, 9y
4.100-8420669.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.71	85	92.5	3.5cm, 4.8m, 10y
4.100-8420670.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.62	85	98.5	3.3cm, 4.4m, 9y
4.100-8420671.0		1984	GROSSE ROCHE	QUE	CAN	48.59	67.01	183	S	.48	85	95.5	3.4cm, 4.3m, 10y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4. 100-8420672. 0		1984	GROSSE ROCHE	QUE	CAN	48. 59	67. 01	183	S	. 47	85	96. 0	3. 4cm, 4. 3m, 9y
4. 100-8420680. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	S	. 34	85	99. 5	1. 3cm, 2. 7m, 8y
4. 100-8420681. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	S	. 33	85	95. 5	1. 3cm, 2. 5m, 7y
4. 100-8420682. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	S	. 39	85	100. 0	1. 5cm, 2. 7m, 8y
4. 100-8420683. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	S	. 33	85	96. 0	1. 3cm, 2. 55m, 8y
4. 100-8420684. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	S	. 32	85	96. 0	1. 3cm, 2. 35m, 8y
4. 100-8420685. 0		1984	GUEVILLON	QUE	CAN	49. 07	77. 00	76	B(2)	. 31	85	94. 5	1. 1-1. 2cm, 7-8y
4. 100-8420693. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 34	85	98. 0	1. 0cm, 2. 0m, 6y
4. 100-8420694. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 38	85	99. 5	1. 2cm, 2. 25m, 6y
4. 100-8420695. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 33	85	97. 0	1. 3cm, 2. 1m, 6y
4. 100-8420696. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 39	85	97. 0	1. 0cm, 2. 1m, 5y
4. 100-8420697. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 40	85	97. 0	1. 4cm, 2. 5m, 6y
4. 100-8420698. 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 38	85	96. 5	1. 3cm, 2. 15m, 6y
4. 100-8420699 0		1984	VERS CHIBOUGAMEAU	QUE	CAN	48. 40	72. 35	183	S	. 34	85	94. 0	1. 2cm, 2. 25m, 6y
4. 100-8420703. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	S	. 43	85	100. 0	3. 2cm, 3. 5m, 9y
4. 100-8420704. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	S	. 37	85	95. 0	2. 9cm, 3. 1m, 9y
4. 100-8420705. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	S	. 34	85	89. 0	3. 0cm, 2. 9m, 8y
4. 100-8420706. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	S	. 38	85	95. 0	2. 8cm, 2. 95m, 8y
4. 100-8420707. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	S	. 36	85	98. 5	2. 9cm, 3. 2m, 10y
4. 100-8420708. 0		1984	MANIC	QUE	CAN	49. 52	68. 44	335	B(2)	. 39	85	96. 5	3. 5-3. 7cm, 10-11y
4. 100-8420709. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	S	. 64	85	95. 0	1. 3cm, 2. 0m, 3y
4. 100-8420710. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	S	. 65	85	98. 0	1. 3cm, 1. 7m, 3y
4. 100-8420711. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	S	. 57	85	98. 5	1. 4cm, 1. 6m, 3y
4. 100-8420712. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	S	. 54	85	96. 0	1. 3cm, 1. 6m, 3y
4. 100-8420713. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	S	. 56	85	91. 5	1. 4cm, 1. 8m, 3y
4. 100-8420714. 0		1984	NEW RICHMOND	QUE	CAN	48. 25	65. 39	229	B(2)	. 73	85	66. 0	1. 5-2. 3cm, 4-5y
4. 100-8420722. 0		1984	VERENDRY	QUE	CAN	47. 30	76. 43	366	S	37	85	77. 5	1. 7cm, 3m, 7y
4. 100-8420723. 0		1984	VEFENDRY	QUE	CAN	47. 30	76. 43	366	S	. 31	85	57. 0	1. 8cm, 3m, 7y
4. 100-8420724. 0		1984	VERENDRY	QUE	CAN	47. 30	76. 43	366	S	. 37	85	97. 5	2. 3cm, 3. 7m, 9y
4. 100-8420725. 0		1984	VERENDRY	QUE	CAN	47. 30	76. 43	366	B(3)	. 34	85	66. 0	1. 9-2. 1cm, 7-8y
4. 100-8420727. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 35	85	88. 5	2. 1cm, 2. 6m, 7y
4. 100-8420728. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 34	85	80. 5	1. 7cm, 2. 1m, 7y
4. 100-8420729. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 45	85	87. 0	1. 5cm, 2m, 7y
4. 100-8420730. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 38	85	88. 0	1. 9cm, 2. 4m, 7y
4. 100-8420731. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 39	85	91. 5	2cm, 2. 5m, 7y
4. 100-8420732. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 32	85	96. 5	1. 8cm, 2. 4m, 8y
4. 100-8420733. 0		1984	ST MAURICE	QUE	CAN	47. 14	72. 51	152	S	. 37	85	92. 0	1. 8cm, 2. 4m, 7y
4. 100-8430759. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 27	85	32. 0	. 7cm, 1. 6m, 5y
4. 100-8430760. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 28	85	34. 0	. 6cm, 2. 2m, 4y
4. 100-8430761. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 25	85	48. 0	. 5cm, 1. 6m, 4y
4. 100-8430762. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 33	85	97. 0	. 6cm, 2. 2m, 4y
4. 100-8430763. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 28	85	63. 0	. 9cm, 2. 5m, 5y
4. 100-8430764. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 33	85	53. 5	. 9cm, 2. 3m, 5y
4. 100-8430765. 0		1984	FRAZER LAKE	ONT	CAN	49. 12	88. 12	290	S	. 30	85	48. 0	. 9cm, 2. 2m, 5y
4. 100-8430766. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 35	85	93. 0	1. 1cm, 2m, 7y
4. 100-8430767. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 29	85	74. 0	1. 6cm, 2. 5m, 9y
4. 100-8430768. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 32	85	97. 0	1. 2cm, 2m, 7y
4. 100-8430769. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 38	85	97. 0	1. 1cm, 1. 7m, 6y
4. 100-8430770. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 36	85	97. 5	. 9cm, 2m, 7y
4. 100-8430771. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 39	85	90. 5	1. 2cm, 2. 5m, 8y
4. 100-8430772. 0		1984	PAKASHKAN LAKE	ONT	CAN	49. 14	90. 37	503	S	. 33	85	93. 5	1cm, 2. 2m, 8y
4. 100-8430773. 0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49. 46	87. 45	350	S	. 31	85	100. 0	1. 5cm, 2. 5m, 10y
4. 100-8430774. 0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49. 46	87. 45	350	S	. 25	85	100. 0	1. 2cm, 2. 3m, 11y
4. 100-8430775. 0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49. 46	87. 45	350	S	. 30	85	100. 0	1. 6cm, 3. 4m, 12y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.100-8430776.0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49.46	87.45	350	S	.29	85	97.0	1.2cm, 2.2m, 10y
4.100-8430777.0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49.46	87.45	350	S	.30	85	91.0	1.7cm, 2.6m, 12y
4.100-8430778.0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49.46	87.45	350	S	.33	85	90.5	1.4cm, 2.1m, 11y
4.100-8430779.0		1984	NAMEWAMINIKAN RIVER	ONT	CAN	49.46	87.45	350	S	.36	84	96.0	2cm, 3.2m, 12y
4.100-8430780.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.30	85	95.0	1.1cm, 2m, 11y
4.100-8430781.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.34	85	93.0	1cm, 2.1m, 10y
4.100-8430782.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.28	85	84.5	2cm, 2.4m, 9y
4.100-8430783.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.33	85	90.5	1.7cm, 2m, 9y
4.100-8430784.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.40	85	95.5	1.8cm, 2.4m, 10y
4.100-8430785.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.37	85	96.5	1.4cm, 2.8m, 10y
4.100-8430786.0		1984	PIC RIVER	ONT	CAN	49.22	85.59	350	S	.26	85	88.5	1.5cm, 2m, 10y
4.100-8430787.0		1984	RAITH	ONT	CAN	48.55	89.60	488	S	.20	85	22.0	1.7cm, 2.6m, 8y
4.100-8430788.0		1984	RAITH	ONT	CAN	48.55	89.60	488	S	.22	85	55.5	1.2cm, 2.2m, 6y
4.100-8430789.0		1984	RAITH	ONT	CAN	48.55	89.60	488	S	.19	85	26.0	1cm, 2.6m, 6y
4.100-8430790.0		1984	RAITH	ONT	CAN	48.55	89.60	488	S	.29	85	92.5	1cm, 2.3m, 7y
4.100-8430791.0		1984	RAITH	ONT	CAN	48.55	89.60	488	B(3)	.29	85	61.5	1.1-2cm, 6-9y
4.100-8440845.0		1984	BOGGY CREEK	MAN	CAN	51.32	100.56	686	S	.30	85	70.0	
4.100-8440846.0		1984	BOGGY CREEK	MAN	CAN	51.32	100.56	686	B(6)	.32	85	73.5	
4.100-8440847.0		1984	BOGGY CREEK	MAN	CAN	51.32	100.56	686	B(7)	.31	85	77.5	2.5-7.6cm, .91-2.4m
4.100-8450515.0		1984	CANDLE LAKE	SASK	CAN	53.53	105.24	495	S	.15	85	22.0	1.8cm, 2.7m, 6y
4.100-8450532.0		1984	McPHEE LAKE	SASK	CAN	53.52	105.58	549	S	.21	85	32.0	1.8cm, 3.1m, 7y
4.100-8450533.0		1984	McPHEE LAKE	SASK	CAN	53.52	105.58	549	S	.18	85	21.5	1.7cm, 2.4m, 5y
4.100-8451475.0		1984	FORT A LA CORNE	SASK	CAN	53.24	104.42	450	B(3)	.34	85	52.5	
4.100-8451477.0		1984	CANDLE LAKE	SASK	CAN	53 53	105.24	495	B(4)	.21	85	45.0	
(4.300) ALNUS GLUTINOSA (black alder)													
4.300-7789210.0	10961.00	1977	MARBURG		DEU	50.40	9.10E	300	B	1.41	84	41.0	
4.300-7984670.0		1979	ST. JULIEN EN BORN		FRA	44.04	1.13E	22	N/A	.93	84	92.5	VIA DR STEENACKERS
4.300-7984680.0		1979	FRAMBOIS 4		FRA	48.32	6.32E	250	N/A	1.70	84	97.5	VIA DR STEENACKERS
4.300-8181210.0		1981	CHERNIGOUSKAYA OBLAST		SUN	51.30	31.30E		B	1.53	84	39.5	
4.300-8181370.0		1981	ZOERSEL 3		BEL	51.15	4.40E		B(10)	1.82	84	51.5	VIA DR STEENACKERS
4.300-8181390.0		1981	VONESOTA VODA - 3		BRG	25.40	42.50E	400	N/A	1.40	84	73.0	VIA DR STEENACKERS
4.300-8480964.0		1984	BENDERKA FOR., LITHUANIA		SUN	54.21	23.24E	110	B(3)	1.56	85	87.0	22cm, 18m, 40y
4.300-8480965.0		1984	KAUNAS LAGOON, LITHUANIA		SUN	55.28	24.02E	52	B(5)	1.25	85	76.0	24cm, 19m, 50y
(4.380) ALNUS HIRSUTA													
4.380-8380672.0		1983	CHANG-WEI, SHANTUNG PROV.		CHN	36.00	120.00E	500	N/A	1.25	85	25.5	
(4.400) ALNUS INCANA [grey (European) alder]													
4.400-7931390.0	10981.00	1979	LAKE DORE	ONT	CAN	45.37	77.07	175	B	.78	84	75.0	
4.400-7983140.0		1979	TARTU, ESTONIA		SUN	58.24	26.43E	50	S	.92	84	90.0	10m, 10y
4.400-7983150.0		1979	SURJU FOR DIST ESTONIA		SUN	58.19	24.40E	20	S	.62	84	37.0	10m, 10y
4.400-8130170.0		1981	LAKE DORE	ONT	CAN	45.37	77.07	175	B(3)	.85	84	21.0	
(4.560) ALNUS NEPALENSIS													
4.560-8380675.0		1983	KUN-MING, YUNNAN PROV.		CHN	25.01	102.41E	1800	N/A	.40	85	57.0	
(4.600) ALNUS RUBRA [red (Oregon) alder]													
4.600-8071150.0		1980	BOTANICAL BAY, VANC. IS	BC	CAN	48.28	124.25	50	B	.52	84	65.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4. 600-8071170. 0		1980	SHAWNIGAN-RENFREW	BC	CAN	49. 25	124. 15	500	B	. 54	84	75. 0	VANC. ISLAND
4. 600-8071180. 0		1980	SHAWNIGAN, VANCOUVER IS	BC	CAN	48. 36	123. 40	190	B	. 62	84	68. 0	
4. 600-8081990. 0		1980	SAINDPOINT	ID	USA	48. 22	116. 45	945	S	. 56	84	55. 0	
4. 600-8082000. 0		1980	FORKS	WASH	USA	48. 03	124. 36	50	S	. 32	84	27. 5	VIA DR STEENACKERS
4. 600-8082010. 0		1980	WIND RIVER EXP. FOREST	WASH	USA	45. 46	121. 55	360	S	. 60	84	92. 0	
4. 600-8082020. 0		1980	FORT BRAGG	CAL	USA	39. 44	123. 03		S	. 42	84	36. 5	VIA DR STEENACKERS
4. 600-8181330. 0		1981	ALBION	CAL	USA	39. 15	123. 45		B	. 42	84	27. 0	VIA DR STEENACKERS
4. 600-8370232. 0		1983	SPRUSTON ROAD	BC	CAN	49. 03	123. 56	107	S	. 65	84	41. 5	45cm, 31m, 55y
4. 600-8370233. 0		1983	SPRUSTON ROAD	BC	CAN	49. 03	123. 56	107	S	. 46	84	27. 5	28cm, 25m, 55y
4. 600-8370235. 0		1983	SPRUSTON ROAD	BC	CAN	49. 03	123. 56	107	S	. 64	84	60. 0	29cm, 28m, 45y
4. 600-8370245. 0		1983	HORNE LAKE	BC	CAN	49. 21	124. 43	122	S	. 54	84	24. 0	22cm, 17m, 26y
4. 600-8370250. 0		1983	HORNE LAKE	BC	CAN	49. 21	124. 43	122	S	. 52	84	41. 5	18cm, 16m, 23y
4. 600-8370251. 0		1983	HORNE LAKE	BC	CAN	49. 21	124. 43	122	S	. 48	84	22. 0	21cm, 17m, 24y
4. 600-8370252. 0		1983	HORNE LAKE	BC	CAN	49. 21	124. 43	122	S	. 80	84	63. 0	21cm, 20m, 26y
4. 600-8370254. 0		1983	HORNE LAKE	BC	CAN	49. 21	124. 43	122	S	. 51	84	54. 5	24cm, 20m, 35y
4. 600-8370256. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 67	85	90. 0	32cm, 19m, 27y
4. 600-8370257. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 59	85	49. 5	25cm, 18m, 20y
4. 600-8370258. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 63	85	94. 0	25cm, 18m, 22y
4. 600-8370259. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 59	85	75. 0	21cm, 17m, 23y
4. 600-8370260. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 69	85	70. 0	23cm, 18m, 21y
4. 600-8370261. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 45	85	65. 0	26cm, 19m, 19y
4. 600-8370262. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 83	85	88. 0	28cm, 21m, 26y
4. 600-8370263. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 80	85	90. 5	26cm, 18m, 23y
4. 600-8370264. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 84	85	86. 5	26cm, 17m, 32y
4. 600-8370265. 0		1983	SALMON RIVER	BC	CAN	50. 12	125. 45	304	S	. 65	85	100. 0	29cm, 15m, 27y
4. 600-8470545. 0		1984	TERRACE	BC	CAN	54. 40	128. 41	305	S	. 32	85	26. 5	9. 5cm, 6m, 10y
4. 600-8470546. 0		1984	TERRACE	BC	CAN	54. 40	128. 41	305	S	. 76	85	76. 0	8cm, 5m, 9y
4. 600-8470549. 0		1984	TERRACE	BC	CAN	54. 40	128. 41	305	S	. 44	85	24. 5	11cm, 6. 5m, 10y
4. 600-8470555. 0		1984	TERRACE	BC	CAN	54. 40	128. 41	305	S	. 71	85	60. 0	9cm, 6m, 9y
4. 600-8470566. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 54	85	72. 0	15cm, 10m, 13y
4. 600-8470567. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 81	85	78. 0	14cm, 11m, 12y
4. 600-8470568. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 53	85	92. 0	12cm, 12m, 8y
4. 600-8470569. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 47	85	37. 0	9cm, 8. 5m, 8y
4. 600-8470570. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 46	85	47. 5	13cm, 9. 5m, 9y
4. 600-8470571. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 47	85	81. 0	9cm, 10m, 9y
4. 600-8470572. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 62	85	89. 5	20cm, 14. 5m, 20y
4. 600-8470573. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 47	85	45. 0	15cm, 17. 5m, 19y
4. 600-8470574. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 60	85	79. 0	19cm, 16. 5m, 14y
4. 600-8470576. 0		1984	KITIMAT	BC	CAN	54. 15	128. 30	60	S	. 56	85	47. 5	15cm, 9. 5m, 12y
4. 600-8470577. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 42	85	45. 0	15cm, 8m, 15y
4. 600-8470578. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 58	85	70. 0	16m, 11m, 12y
4. 600-8470579. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 54	85	74. 5	23cm, 13m, 15y
4. 600-8470580. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 31	85	22. 0	18cm, 8m, 9y
4. 600-8470581. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 38	85	72. 5	13cm, 12m, 15y
4. 600-8470582. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 58	85	57. 5	17cm, 12m, 11y
4. 600-8470583. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 49	85	44. 5	17cm, 13m, 12y
4. 600-8470584. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 50	85	62. 5	14cm, 10. 5m, 10y
4. 600-8470585. 0		1984	PORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 74	85	66. 0	23cm, 15m, 16y
4. 600-8470586. 0		19[illegible]	[illegible]ORT HARDY	BC	CAN	50. 37	127. 15	37	S	. 70	85	80. 0	15cm, 11m, 11y
4. 600-8470599. 0		1984	PRINCE RUPERT	BC	CAN	54. 16	130. 16	46	S	. 59	85	70. 0	15cm, 10m, 13y
4. 600-8470600. 0		1984	PRINCE RUPERT	BC	CAN	54. 16	130. 16	46	S	. 42	85	58. 0	18cm, 10m, 16y
4. 600-8470601. 0		198[illegible]	PRINCE RUPERT	BC	CAN	54. 16	130. 16	46	S	. 47	85	50. 5	14cm, 7. 5m, 13y
4. 600-8470602. 0		1984	PRINCE RUPERT	BC	CAN	54. 16	130. 16	46	S	. 57	85	59. 0	15cm, 8m, 16y
4. 600-8470603. 0		1984	PRINCE RUPERT	BC	CAN	54. 16	130. 16	46	S	. 30	85	44. 5	20cm, 12m, 16y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.600-8470605.0		1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	.40	85	52.0	18cm, 12m, 15y
4.600-8470606.0		1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	.36	85	22.0	11cm, 9m, 9y
4.600-8470607.0		1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	.58	85	75.5	15cm, 13m, 13y
4.600-8470608.0		1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	.47	85	58.5	18cm, 18m, 16y
4.600-8471466.0		1984	NINETEEN CREEK	BC	CAN	48.48	124.07	160	B(15)	.42	85	36.0	
4.600-8471468.0		1984	TERRACE	BC	CAN	54.40	128.41	305	B(7)	.64	85	57.0	
(4.700) ALNUS RUGOSA (speckled alder)													
4.700-7735800.0		1977	NIPISSING TOWNSHIP	ONT	CAN	46.04	79.29	200	B(4)	.83	79	26.0	
4.700-7981860.0		1979	PENOBSCOT RIVER	ME	USA	45.00	69.00	40	B(20)	.59	84	40.0	3-5m, 5-6y
4.700-8310202.0		1983	ENMORE	PEI	CAN	46.35	64.03	10	B(45)	.63	84	22.5	2-5cm, 3-4m
4.700-8310203.0		1983	MILLVALE	PEI	CAN	46.24	63.24	70	B(30)	.85	84	29.0	2-6cm, 3-5m
4.700-8310204.0		1983	VALLEYFIELD	PEI	CAN	46.08	62.43	45	B(25)	.78	84	34.0	4-6cm, 3-5m
4.700-8310548.0		1983	SHEDIAC	NB	CAN	46.14	64.35	15	B(20)	.65	84	23.0	2-6cm, 3-6m
4.700-8310551.0		1983	SHEDIAC	NB	CAN	46.14	64.35	15	S	1.00	84	38.5	3cm, 4m, 8y
4.700-8310552.0		1983	SHEDIAC	NB	CAN	46.14	64.35	15	S	.70	84	33.0	4cm, 5m, 12y
4.700-8310553.0		1983	SHEDIAC	NB	CAN	46.14	64.35	15	S	.65	84	30.0	3cm, 4m, 8y
4.700-8330180.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	B(10)	.67	84	37.0	4-10cm, 3-5m
4.700-8330181.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.75	84	39.5	6cm, 4m
4.700-8330182.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.79	84	69.5	6cm, 4m
4.700-8330183.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.78	84	86.5	6cm, 4m
4.700-8330185.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.81	84	62.5	4cm, 4m
4.700-8330186.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.61	84	30.5	4cm, 3.5m
4.700-8330187.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	1.04	84	68.5	5cm, 4m
4.700-8330188.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.85	84	57.0	3cm, 4m
4.700-8330189.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.63	84	27.0	4cm, 3.5m
4.700-8330190.0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45.50	77.15	150	S	.80	84	63.5	3cm, 4m
4.700-8330191.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	B(20)	.61	84	44.0	4-10cm, 3-5m
4.700-8330192.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.77	84	34.5	6cm, 4m
4.700-8330193.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	1.01	84	80.5	5cm, 3.5m
4.700-8330195.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.83	84	50.5	6cm, 4m
4.700-8330196.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.67	84	25.5	6cm, 4m
4.700-8330197.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.79	84	40.5	5cm, 3.5m
4.700-8330198.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.70	84	50.5	7cm, 4m
4.700-8330200.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.71	84	47.5	6cm, 4m
4.700-8330201.0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45.20	76.30	75	S	.77	84	58.0	6cm, 4m
4.700-8400850.0		1984	HWY 1 WEST OF HWY 403	NFLD	CAN	58.27	48.18	61	B(7)	.93	85	84.0	
4.700-8400852.0		1984	GRAND FALLS	NFLD	CAN	49.00	55.35	122	B	.80	85	70.0	8-9cm, 4.0-4.5m
4.700-8400853.0		1984	LAKE DOUGLAS	NFLD	CAN	48.30	56.40	305	B(7)	.97	85	82.5	8-9cm, 4.0-4.5m
4.700-8400854.0		1984	BERRY HILL POND	NFLD	CAN	48.20	55.30	213	S	.97	85	76.0	
4.700-8400855.0		1984	BERRY HILL POND	NFLD	CAN	48.20	55.30	213	S	1.02	85	75.5	
4.700-8400856.0		1984	BERRY HILL POND	NFLD	CAN	48.20	55.30	213	B(5)	.87	85	56.5	7-8.5cm, 10-15y
4.700-8410744.0		1984	CORBERRIE	NS	CAN	44.13	65.56	76	S	.74	85	38.5	2.1-4.2cm, 4.1-4.7m
4.700-8410745.0		1984	CORBERRIE	NS	CAN	44.13	65.56	76	B(3)	.65	85	58.0	2.5-5.1cm, 3.5-6.4m
4.700-8410746.0		1984	VIEW LAKE	NS	CAN	44.32	65.21	168	S	.64	85	58.0	3.4-5.1cm, 4.3-4.9m
4.700-8410747.0		1984	VIEW LAKE	NS	CAN	44.32	65.21	168	S	.66	85	91.5	2-3.3cm, 2.6-4.1m
4.700-8410748.0		1984	VIEW LAKE	NS	CAN	44.32	65.21	168	B(3)	.85	85	84.0	2-5.9cm, 2.7-5.2m
4.700-8410749.0		1984	SHINIMICAS BRIDGE	NS	CAN	45.52	63.54	15	S	.51	85	48.5	2.3-3.7cm, 4-5m
4.700-8410750.0		1984	SHINIMICAS BRIDGE	NS	CAN	45.52	63.54	15	B(4)	.77	85	94.0	1-3.5cm, 2.6-4.9m
4.700-8410751.0		1984	QUEENS COUNTY	NB	CAN	45.57	65.45	15	S	.85	85	88.5	1.9-4.8cm, 3.2-4.9m
4.700-8410752.0		1984	QUEENS COUNTY	NB	CAN	45.57	65.45	15	S	.81	85	95.5	2.8-4.1cm, 4.9-5.4m
4.700-8410753.0		1984	QUEENS COUNTY	NB	CAN	45.57	65.45	15	B(3)	.81	85	88.0	1.1-4.7cm, 2.8-5.8m
4.700-8420616.0		1984	LABRIEVILLE	QUE	CAN	49.09	69.21	305	S	.86	85	75.0	5.3cm, 4.1m, 18y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.700-8420617.0		1984	LABRIEVILLE	QUE	CAN	49.09	69.21	305	B(6)	.83	85	86.5	4.3-5.2cm, 17-18y
4.700-8420618.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.58	85	38.5	2.0cm, 3.2m, 9y
4.700-8420619.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.72	85	89.0	2.1cm, 3.1m, 8y
4.700-8420620.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.76	85	65.0	2.8cm, 4.1m, 11y
4.700-8420621.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.74	85	54.0	2.6cm, 3.35m, 9y
4.700-8420622.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.78	85	66.0	2.1cm, 3.15m, 9y
4.700-8420623.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.58	85	40.5	2.2cm, 3.1m, 9y
4.700-8420624.0		1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	.67	85	75.0	2.3cm, 3.2m, 10y
4.700-8420632.0		1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	.63	85	21.0	5.7cm, 6.2m, 11y
4.700-8420634.0		1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	.95	85	87.5	7.9cm, 6.2m, 12y
4.700-8420635.0		1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	.70	85	61.5	4.5cm, 5.3m, 8y
4.700-8420636.0		1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	.77	85	49.5	6.9cm, 6.2m, 9y
4.700-8420637.0		1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	.97	85	94.5	9.0cm, 7.0m, 12y
4.700-8420639.0		1984	ST AMABLE	QUE	CAN	45.38	73.20	46	S	.86	85	70.0	4.8cm, 4.0m, 9y
4.700-8420640.0		1984	ST AMABLE	QUE	CAN	45.38	73.20	46	S	.84	85	87.0	8.2cm, 7.5m, 14y
4.700-8420641.0		1984	ST AMABLE	QUE	CAN	45.38	73.20	46	B(5)	.78	85	68.5	2.6-8.2cm, 7-16y
4.700-8420642.0		1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	.96	85	52.5	4.2cm, 4.1m, 10y
4.700-8420643.0		1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	1.06	85	75.0	6.5cm, 6.9m, 13y
4.700-8420645.0		1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	1.06	85	71.5	4.4cm, 4.3m, 13y
4.700-8420646.0		1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	B(3)	.73	85	58.0	4.1-7.0cm, 9-14y
4.700-8420648.0		1984	ST THARCISIUS	QUE	CAN	48.33	67.16	290	S	.71	85	78.0	4.9cm, 4.2m, 12y
4.700-8420649.0		1984	ST THARCISIUS	QUE	CAN	48.33	67.16	290	S	.94	85	87.5	4.8cm, 5.35m, 12y
4.700-8420650.0		1984	ST THARCISIUS	QUE	CAN	48.33	67.16	290	S	.97	85	94.0	3.5cm, 4.8m, 8y
4.700-8420651.0		1984	ST THARCISIUS	QUE	CAN	48.33	67.16	290	S	.76	85	70.5	3.6cm, 4.6m, 10y
4.700-8420652.0		1984	ST THARCISIUS	QUE	CAN	48.33	67.16	290	B(3)	.88	85	80.5	5.0-5.3cm, 12y
4.700-8420653.0		1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	S	.96	83	82.0	2.7cm, 3.10m, 12y
4.700-8420654.0		1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	S	.97	85	78.0	2.6cm, 3.0m, 13y
4.700-8420655.0		1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	S	1.02	85	86.0	2.9cm, 2.9m, 12y
4.700-8420658.0		1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	B(2)	.98	85	76.5	2.7-2.8cm, 13y
4.700-8420673.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.55	85	28.0	4.5cm, 5.2m, 13y
4.700-8420674.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.74	85	82.5	2.4cm, 2.9m, 10y
4.700-8420675.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.85	85	95.0	2.3cm, 2.8m, 10y
4.700-8420676.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.81	85	94.0	4.6cm, 5.25m, 13y
4.700-8420677.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.85	85	85.5	4.3cm, 4.9m, 12y
4.700-8420678.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.80	85	92.5	4.7cm, 5.1m, 14y
4.700-8420679.0		1984	AMOS	QUE	CAN	49.07	77.00	76	S	.84	85	95.0	3.3cm, 4.1m, 12y
4.700-8420686.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.79	85	80.0	2.2cm, 2.5m, 13y
4.700-8420687.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.75	85	88.0	1.9cm, 2.7m, 11y
4.700-8420688.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.80	85	91.5	1.9cm, 2.5m, 12y
4.700-8420689.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.82	85	96.0	2.3cm, 2.75m, 13y
4.700-8420690.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.72	85	91.5	2.1cm, 2.1m, 13y
4.700-8420691.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.62	85	90.5	2.1cm, 2.25m, 12y
4.700-8420692.0		1984	ST FEREOL	QUE	CAN	47.41	71.13	747	S	.65	85	86.5	1.8cm, 2.1m, 11y
4.700-8420700.0		1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	S	.70	85	87.0	3.9cm, 4.2m, 13y
4.700-8420701.0		1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	S	.88	85	69.0	3.8cm, 4.2m, 15y
4.700-8420702.0		1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	B(5)	.76	85	81.5	4.2-5.4cm, 17-19y
4.700-8420715.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	.86	85	98.5	4.9cm, 6.1m, 14y
4.700-8420716.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	.87	85	98.0	4.1cm, 5.4m, 13y
4.700-8420717.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	.97	84	100.0	3.8cm, 4.9m, 13y
4.700-8420718.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	1.08	85	96.0	3.7cm, 5.0m, 13y
4.700-8420719.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	1.12	85	97.0	4.5cm, 6.1m, 14y
4.700-8420720.0		1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	B(2)	.70	85	98.0	3.3-3.9cm, 12-13y
4.700-8420726.0		1984	VERONIQUE	QUE	CAN	46.30	74.59	259	B(7)	.68	85	93.5	4.8-5.7cm, 12-15y
4.700-8420734.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	1.11	85	89.0	5-6.5m, 16y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.700-8420735.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	.98	85	99.5	4.5cm, 6.2m, 16y
4.700-8420736.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	.64	85	97.5	4.9cm, 5.1m, 15y
4.700-8420737.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	1.09	85	98.5	4.6cm, 6.1m
4.700-8420738.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	.84	85	100.0	5.1cm, 6.8m, 18y
4.700-8420739.0		1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	B(2)	.90	85	100.0	4.9cm, 16-17y
4.700-8430792.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.70	85	91.5	4cm, 6.6m, 13y
4.700-8430793.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.98	85	92.5	2.8cm, 3.6m, 8y
4.700-8430794.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.64	85	82.0	1.9cm, 2.8m, 8y
4.700-8430795.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.71	85	33.0	3.1cm, 4.5m, 13y
4.700-8430796.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.66	85	55.0	5.8cm, 5.4m, 19y
4.700-8430797.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.78	85	84.5	3.1cm, 3.8m, 16y
4.700-8430798.0		1984	SPRUCE RIVER	ONT	CAN	49.08	89.19	457	S	.77	85	79.0	3cm, 5m, 16y
4.700-8430799.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.66	85	46.0	1.9cm, 2.7m, 7y
4.700-8430800.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.95	85	72.5	3.1cm, 4.1m, 8y
4.700-8430801.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.69	85	23.0	3cm, 3.6m, 7y
4.700-8430802.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.65	85	43.0	2.8cm, 3.5m, 11y
4.700-8430804.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.74	85	92.0	2cm, 4m, 9y
4.700-8430805.0		1984	HAZELWOOD	ONT	CAN	49.08	90.38	488	S	.77	85	83.0	2.6cm, 3.5m, 10y
4.700-8430806.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.67	85	61.0	2.6cm, 3.5m, 15y
4.700-8430807.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.86	85	94.5	2.5cm, 4.3m, 12y
4.700-8430808.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.95	85	95.5	2cm, 4m, 12y
4.700-8430809.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.77	85	59.0	1.7cm, 3.2m, 15y
4.700-8430810.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.92	85	30.5	2.3cm, 4.1m, 12y
4.700-8430811.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.92	85	30.5	2cm, 3.8m, 18y
4.700-8430812.0		1984	BEARDMORE	ONT	CAN	49.41	87.41	335	S	.69	85	68.0	2.2cm, 3.2m, 14y
4.700-8430814.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	.46	85	42.5	3cm, 5.1m, 13y
4.700-8430815.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	.79	85	91.0	2.5cm, 4.2m, 13y
4.700-8430816.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	.87	85	69.0	3.1cm, 4.5m, 11y
4.700-8430817.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	1.00	85	82.5	2.8cm, 5.1m, 10y
4.700-8430818.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	.71	85	87.5	2cm, 2.5m, 13y
4.700-8430819.0		1984	CARAMAT	ONT	CAN	49.33	86.09	350	S	1.03	85	96.0	2.7cm, 3.5m, 8y
4.700-8430820.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.49	85	81.0	8.2cm, 6.7m, 21y
4.700-8430821.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.73	84	96.5	7.5cm, 7m, 19y
4.700-8430822.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.65	85	78.0	7.3cm, 6.5m, 19y
4.700-8430823.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.71	85	65.0	6.5cm, 6m, 16y
4.700-8430824.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.87	85	68.0	6.8cm, 6.2m, 17y
4.700-8430825.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.78	85	82.5	8.3cm, 8.6m, 25y
4.700-8430826.0		1984	DOG RIVER	ONT	CAN	48.55	89.60	488	S	.80	85	87.0	7.5cm, 7m, 21y
4.700-8430827.0		1984	CARNARVON	ONT	CAN	45.02	78.50	305	B(7)	1.00	85	90.5	3.8-6cm, 10-13y
4.700-8430828.0		1984	FRANKTOWN	ONT	CAN	45.03	76.04	122	B(7)	.78	85	40.5	3.8-8.3cm, 10-16y
4.700-8430829.0		1984	BANCROFT	ONT	CAN	44.57	77.46	335	B(7)	.94	85	90.5	4.8-8.3cm, 10-20y
4.700-8430830.0		1984	MARMORA	ONT	CAN	44.28	77.40	122	B(7)	.88	85	95.5	3.8-7cm, 9-21y
4.700-8430831.0		1984	JUNCTION HWY 60	ONT	CAN	45.28	78.14	335	B(7)	.97	85	90.5	2.5-5.5cm, 7-15y
4.700-8430832.0		1984	WHITE LAKE	ONT	CAN	45.22	76.32	183	S	.86	85	83.5	6.4cm, 5.5m, 8y
4.700-8430833.0		1984	WHITE LAKE	ONT	CAN	45.22	76.32	183	S	1.00	85	95.5	5.4cm, 5.8m, 12y
4.700-8430834.0		1984	WHITE LAKE	ONT	CAN	45.22	76.32	183	S	1.04	85	88.0	5.7cm, 5.3m, 21y
4.700-8430835.0		1984	WHITE LAKE	ONT	CAN	45.22	76.32	183	B(4)	.91	85	83.0	4.8-8.3cm, 11-28y
4.700-8430836.0		1984	FOXBORO	ONT	CAN	44.15	77.25	91	B(7)	.82	85	43.5	4.4-5.7cm, 9-13y
4.700-8430837.0		1984	COLBORNE	ONT	CAN	44.02	77.54	122	B(7)	.85	85	97.0	2.5-5.7cm, 7-13y
4.700-8430838.0		1984	OMENEE	ONT	CAN	44.18	78.27	244	B(7)	.97	85	68.5	4.4-5.7cm, 9-12y
4.700-8430839.0		1984	RENFREW	ONT	CAN	45.20	77.02	305	S	.82	85	86.0	5.7cm, 5m, 14y
4.700-8430840.0		1984	RENFREW	ONT	CAN	45.20	77.02	305	S	.98	85	94.5	4.8cm, 4.4m, 12y
4.700-8430841.0		1984	RENFREW	ONT	CAN	45.20	77.02	305	S	.94	85	100.0	7.6cm, 5.6m, 20y
4.700-8430842.0		1984	RENFREW	ONT	CAN	45.20	77.02	305	S	.91	85	97.5	5.1cm, 5.8m, 11y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.700-8430843.0		1984	RENFREW	ONT	CAN	45 20	77.02	305	S	.83	85	82.0	5.5cm, 5.9m, 15y
4.700-8430844.0		1984	RENFREW	ONT	CAN	45 20	77.02	305	B(2)	.85	85	95.5	4.4-7.6cm, 12-19y
4.700-8450494.0		1984	FORT A LA CORNE	SASK	CAN	53 24	104.43	450	S	.50	85	27.0	3.6cm, 4m, 14y
4.700-8450500.0		1984	LaRONGE	SASK	CAN	54 48	105.17	381	S	.65	85	65.5	3.9cm, 4.3m, 15y
4.700-8450501.0		1984	LaRONGE	SASK	CAN	54 48	105.17	381	S	.54	85	36.0	3.6cm, 4.3m, 16y
4.700-8450502.0		1984	LaRONGE	SASK	CAN	54 48	105.17	381	B(5)	.55	85	31.5	3.4-3.8cm, 12-15y
4.700-8451469.0		1984	HUDSON BAY	SASK	CAN	52 48	101 47	351	B(7)	.58	85	21.5	
(4 800) ALNUS SINUATA (sitka alder)													
4.800-7971840.0	10985 00	1979	MCKENDRICK PASS	BC	CAN	54.50	126.45	1190	B(20)	.53	84	84.0	3-8cm, 1-5m
4.800-8071210.0		1980	CRANBROOK	BC	CAN	49 35	117.05	640	B	.26	84	35.0	
4.800-8370208.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	B(25)	.47	84	91.5	3-7cm, 2-5m
4.800-8370210.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	B(40)	.40	85	68.5	5-8cm, 2-5m
4.800-8370213.0		1983	CHINA NOSE MT. SUMMIT	BC	CAN	54.27	126.08	1430	B(30)	.44	85	47.0	2-6cm, 2-3m
4.800-8370214.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	B(50)	.38	85	69.5	2-5cm, 1-3m
4.800-8370217.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	B(40)	.44	85	65.5	1-10cm, 2-7m
4.800-8370219.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	B(40)	.42	85	39.5	2-10cm, 1-6m
4.800-8370220.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	B(50)	.40	85	53.5	2-8cm, 1-4m
4.800-8370222.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	B(20)	.38	85	57.5	2-5cm, 1-3m
4.800-8370229.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	B(30)	.52	85	71.5	2-5cm, 1-4m
4.800-8370242.0		1983	GREEN MT.	BC	CAN	49.03	124.21	1100	B(40)	.68	85	87.0	1-7cm, 2-5m
4.800-8370244.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	B(45)	.49	85	29.5	1-7cm, 1-4m
4.800-8370255.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	B(20)	.39	84	31.5	1-6cm, 1-4m
4.800-8370266.0		1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	B(35)	.36	84	20.5	1-5cm, 1-4m
4.800-8370277.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.43	84	79.0	SILT LOAM
4.800-8370278.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.45	84	78.0	SILT LOAM
4.800-8370279.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.39	84	79.0	SILT LOAM
4.800-8370280.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.55	84	73.5	SILT LOAM
4.800-8370281.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.35	84	52.0	SILT LOAM
4.800-8370282.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.42	84	81.0	SILT LOAM
4.800-8370283.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.37	84	56.5	SILT LOAM
4.800-8370284.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.38	84	51.0	SILT LOAM
4.800-8370285.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.38	84	81.0	SILT LOAM
4.800-8370286.0		1983	DEASE LAKE	BC	CAN	58.45	130.03	869	S	.44	84	59.0	SILT LOAM
4.800-8370297.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.29	84	43.5	ON STEEP HILL
4.800-8370298.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.31	84	47.5	ON STEEP HILL
4.800-8370299.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.34	84	42.0	ON STEEP HILL
4.800-8370300.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.33	84	72.0	ON STEEP HILL
4.800-8370301.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.38	84	74.0	ON STEEP HILL
4.800-8370302.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.43	84	62.0	ON STEEP HILL
4.800-8370303.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.38	84	63.5	ON STEEP HILL
4.800-8370304.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.30	84	71.5	ON STEEP HILL
4.800-8370305.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.23	84	30.5	ON STEEP HILL
4.800-8370306.0		1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	S	.47	84	79.0	ON STEEP HILL
4.800-8370317.0		1983	CHINA NOSE SUMMIT	BC	CAN	54.27	126.08	1430	S	.37	85	75.0	GRAVEL, FAIR SITE
4.800-8370325.0		1983	CHINA NOSE SUMMIT	BC	CAN	54.27	126.08	1430	S	.45	85	89.5	GRAVEL, FAIR SITE
4.800-8370328.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.35	85	81.0	SANDY GRAVEL
4.800-8370330.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.62	85	80.5	SANDY GRAVEL
4.800-8370331.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.40	85	79.5	SANDY GRAVEL
4.800-8370332.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.48	85	71.5	SANDY GRAVEL
4.800-8370333.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.46	85	82.0	SANDY GRAVEL
4.800-8370335.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.42	85	80.5	SANDY GRAVEL
4.800-8370336.0		1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	S	.43	85	76.5	SANDY GRAVEL

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.800-8370358.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.44	85	60.0	GRAVEL LOAM
4.800-8370359.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.57	85	58.0	GRAVEL LOAM
4.800-8370360.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.47	85	98.0	GRAVEL LOAM
4.800-8370361.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.52	85	70.0	GRAVEL LOAM
4.800-8370362.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.42	85	71.0	GRAVEL LOAM
4.800-8370363.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.44	85	60.5	GRAVEL LOAM
4.800-8370364.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.41	85	71.5	GRAVEL LOAM
4.800-8370365.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.49	85	50.0	GRAVEL LOAM
4.800-8370366.0		1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	.36	85	56.5	GRAVEL LOAM
4.800-8370377.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.57	85	70.0	GRAVEL, 30% SLOPE
4.800-8370378.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.46	85	74.0	GRAVEL, 30% SLOPE
4.800-8370379.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.55	85	80.5	GRAVEL, 30% SLOPE
4.800-8370380.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.52	85	66.5	GRAVEL, 30% SLOPE
4.800-8370381.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.42	85	53.0	GRAVEL, 30% SLOPE
4.800-8370382.0		1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	.43	85	64.0	GRAVEL, 30% SLOPE
4.800-8370389.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	.49	85	61.0	ROCKY CLAY LOAM
4.800-8370390.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	.38	85	60.0	ROCKY CLAY LOAM
4.800-8370391.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	.62	85	70.5	ROCKY CLAY LOAM
4.800-8370393.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	.50	85	88.0	ROCKY CLAY LOAM
4.800-8370396.0		1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	.42	85	64.5	ROCKY CLAY LOAM
4.800-8370407.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	.40	85	78.0	GRAVEL, POOR SITE
4.800-8370409.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	.63	85	94.5	GRAVEL, POOR SITE
4.800-8370413.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	.36	85	61.5	GRAVEL, POOR SITE
4.800-8370414.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	.42	85	84.0	GRAVEL, POOR SITE
4.800-8370416.0		1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	.40	85	58.0	GRAVEL, POOR SITE
4.800-8370467.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.55	85	78.0	SANDY SILT
4.800-8370468.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.44	85	51.0	SANDY SILT
4.800-8370469.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.64	85	87.5	SANDY SILT
4.800-8370470.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.42	85	74.5	SANDY SILT
4.800-8370471.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.52	85	66.0	SANDY SILT
4.800-8370472.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.42	85	67.0	SANDY SILT
4.800-8370473.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.48	85	58.5	SANDY SILT
4.800-8370474.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.49	85	67.5	SANDY SILT
4.800-8370475.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.48	85	77.5	SANDY SILT
4.800-8370476.0		1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	.40	85	81.5	SANDY SILT
4.800-8370477.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.64	85	90.0	SANDY LOAM
4.800-8370478.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.63	85	63.5	SANDY LOAM
4.800-8370479.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.58	85	59.0	SANDY LOAM
4.800-8370480.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.84	85	79.5	SANDY LOAM
4.800-8370481.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.64	85	59.5	SANDY LOAM
4.800-8370482.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.77	85	81.5	SANDY LOAM
4.800-8370483.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.66	85	68.0	SANDY LOAM
4.800-8370484.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.70	85	92.0	SANDY LOAM
4.800-8370485.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.50	84	52.5	SANDY LOAM
4.800-8370486.0		1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	.65	85	76.0	SANDY LOAM
4.800-8370487.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.76	84	85.0	ROCKY LOAM
4.800-8370488.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.60	85	68.0	ROCKY LOAM
4.800-8370489.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.73	85	86.0	ROCKY LOAM
4.800-8370490.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.64	84	89.5	ROCKY LOAM
4.800-8370491.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.52	85	81.5	ROCKY LOAM
4.800-8370492.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.39	85	53.0	ROCKY LOAM
4.800-8370493.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.38	85	64.0	ROCKY LOAM
4.800-8370495.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.51	85	75.5	ROCKY LOAM
4.800-8370496.0		1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	.80	85	84.0	ROCKY LOAM

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4.800-8370497.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.52	85	90.0	ROCKY LOAM
4.800-8370498.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.49	85	59.5	ROCKY LOAM
4.800-8370499.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.39	85	47.5	ROCKY LOAM
4.800-8370500.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.46	85	68.5	ROCKY LOAM
4.800-8370501.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.43	85	81.5	ROCKY LOAM
4.800-8370502.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.58	85	71.0	ROCKY LOAM
4.800-8370503.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.52	85	70.5	ROCKY LOAM
4.800-8370504.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.46	85	72.5	ROCKY LOAM
4.800-8370505.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.55	85	81.0	ROCKY LOAM
4.800-8370506.0		1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	S	.53	85	81.0	ROCKY LOAM
4.800-8370508.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.42	84	57.5	ROCKY LOAM
4.800-8370509.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.56	84	50.5	ROCKY LOAM
4.800-8370512.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.56	84	48.0	ROCKY LOAM
4.800-8370514.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.54	84	43.5	ROCKY LOAM
4.800-8370515.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.43	84	43.5	ROCKY LOAM
4.800-8370516.0		1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	S	.41	84	35.0	ROCKY LOAM
4.800-8370517.0		1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	.32	84	30.5	ROCKY LOAM
4.800-8370521.0		1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	.40	84	38.0	ROCKY LOAM
4.800-8370524.0		1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	.35	84	21.0	ROCKY LOAM
4.800-8370535.0		1983	GOLDEN	BC	CAN	51.30	117.20		B100	.41	84	70.8	3-5cm, 2-4m
4.800-8370536.0		1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B100	.29	84	23.8	2-7cm, 1-3m
(4.900) ALNUS TENUIFOLIA (mountain alder)													
4.700-8360537.0		1983	HINTON	ALTA	CAN	53.25	117.45		B(20)	.54	84	28.5	10cm, 8-10m
4.700-8360538.0		1983	FT. ASSINIBOINE	ALTA	CAN	54.30	114.50		B	.67	84	37.0	10-20cm, 6-7m
4.900-8360540.0		1983	FT ASSINIBOINE	ALTA	CAN	54.30	114.50		B(20)	.50	84	32.5	10-12cm, 5-6m
4.700-8360542.0		1983	WANDERING RIVER	ALTA	CAN	55.20	112.30		B(50)	.50	84	33.0	5-8cm, 2-4m
4.700-8360543.0		1983	EDSON	ALTA	CAN	53.35	116.30		B	.50	84	28.0	10-12cm, 5-6m
4.700-8370209.0		1983	DEASE LAKE	BC	CAN	58.32	130.00	817	B(25)	.75	84	74.5	5-15cm, 2-7m
4.700-8370211.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	B(32)	.79	85	66.5	6-12cm, 6-8m
4.900-8370212.0		1983	HOUSTON	BC	CAN	54.29	126.13	533	B(25)	.66	85	31.0	2-20cm, 3-6m
4.900-8370215.0		1983	BOBTAIL	BC	CAN	53.57	123.28	1152	B(27)	.67	84	52.0	2-20cm, 2-10m
4.900-8370221.0		1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	B*	.48	84	36.0	*(40+), 2-10cm, 3-7m
4.900-8370291.0		1983	DEASE LAKE	BC	CAN	58.32	130.00	817	S	.76	85	72.0	SILT LOAM
4.900-8370292.0		1983	DEASE LAKE	BC	CAN	58.32	130.00	817	S	.67	85	95.0	SILT LOAM
4.900-8370294.0		1983	DEASE LAKE	BC	CAN	58.32	130.00	817	S	.64	85	80.5	SILT LOAM
4.900-8370295.0		1983	DEASE LAKE	BC	CAN	58.32	130.00	817	S	.67	85	85.0	SILT LOAM
4.700-8370308.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	S	.67	85	49.5	LOAMY SOIL
4.900-8370311.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	S	.89	85	77.0	LOAMY SOIL
4.900-8370312.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	S	.74	85	64.0	LOAMY SOIL
4.900-8370315.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	S	.91	85	57.0	LOAMY SOIL
4.900-8370316.0		1983	ISKUT	BC	CAN	57.53	130.00	1033	S	.88	85	51.5	LOAMY SOIL
4.900-8370337.0		1983	BOBTAIL	BC	CAN	53.57	123.28	1152	S	.62	84	45.5	PEAT, FAIR GROWTH
4.900-8370356.0		1983	CACHE CREEK	BC	CAN	50.59	121.28	541	S	.57	85	46.0	GOOD SITE QUALITY
4.900-8370400.0		1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	S	.42	84	35.5	BOG, WET SITE
4.900-8370401.0		1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	S	.35	84	25.5	BOG, WET SITE
4.700-8370539.0		1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B(50)	.58	84	40.5	3-10cm, 2-8m
(8.100) BETULA ALLEGHANIENSIS (yellow birch)													
8.100-6630530.0		1966	PETAWAWA NAT. FOR. INST	ONT	CAN	45.56	77.33	200	S	.93	85	25.0	
8.100-6730280.0		1967	KIOSK	ONT	CAN	46.10	78.30	335	S	.62	82	31.8	64cm, 23m, 235-250y
8.100-6730310.0		1967	KIOSK	ONT	CAN	46.10	78.30	335	S	1.11	80	71.8	64cm, 19m

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
8.100-6730320.0		1967	PANCAKE RIVER	ONT	CAN	46.10	78.30	335	S	1.14	84	58.0	53cm, 20m
8.100-6730330.0		1967	PANCAKE RIVER	ONT	CAN	46.10	78.30	335	S	1.06	80	60.4	
8.100-6730340.0		1967	PANCAKE RIVER	ONT	CAN	47.02	84.38	335	S	.83	84	48.5	
8.100-6730350.0		1967	PANCAKE RIVER	ONT	CAN	47.02	84.38	335	S	.65	84	76.0	
8.100-6730360.0		1967	PANCAKE RIVER	ONT	CAN	47.02	84.38	335	S	.76	85	74.5	
8.100-6730450.0		1967	PETAWAWA NAT. FOR. INST	ONT	CAN	45.57	77.28	210	S	.75	82	41.5	26cm, 17m, 107-110y
8.100-6731920.0		1967	SAULT STE. MARIE	ONT	CAN	46.31	84.20		N/A	.88	84	47.0	
8.100-7030820.0		1970	PEMBROKE AREA	ONT	CAN	45.49	77.07		S	1.56	84	86.0	
8.100-7030840.0		1970	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.25	84	31.0	
8.100-7030850.0		1970	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.25	150	S	1.16	84	52.0	
8.100-7030870.0		1970	PEMBROKE	ONT	CAN	45.49	77.07		N/A	1.64	84	23.0	
8.100-7030880.0		1970	PEMBROKE	ONT	CAN	45.49	77.07		S	1.47	85	83.0	
8.100-7030890.0		1970	PEMBROKE	ONT	CAN	45.49	77.07		S	1.17	84	23.0	
8.100-7030900.0		1970	ALGONQUIN PARK	ONT	CAN	45.45	79.00		S	.94	84	66.0	SAND LK RD
8.100-7030910.0		1970	ALGONQUIN PARK	ONT	CAN	45.45	79.00		S	.94	84	74.0	SAND LK RD
8.100-7030920.0		1970	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	150	S	1.24	85	67.0	
8.100-7030930.0		1970	E. OF ALGONQUIN PK GATE	ONT	CAN	45.33	78.12		S	1.08	85	33.5	
8.100-7030940.0		1970	E. OF ALGONQUIN PK GATE	ONT	CAN	45.33	78.12		S	1.62	84	28.0	
8.100-7030960.0		1970	CENTRAL RESEARCH FOREST	ONT	CAN	45.24	75.33	70	S	1.43	84	91.0	
8.100-7130940.0		1971	E. OF ALGONQUIN PK GATE	ONT	CAN	45.33	78.12		N/A	1.13	85	35.5	
8.100-7434390.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	.92	84	82.0	
8.100-7434400.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.13	84	85.0	
8.100-7434510.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.32	85	66.5	
8.100-7434520.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.50	84	83.0	
8.100-7434530.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.35	84	78.0	
8.100-7434540.0		1974	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	1.38	84	34.0	
8.100-7434550.0		1974	WHITNEY	ONT	CAN	45.25	78.16	460	S	1.00	84	69.0	51cm, 17m
8.100-7434560.0		1974	WHITNEY	ONT	CAN	45.25	78.16	460	S	1.38	84	68.0	64cm, 18m
8.100-7434740.0		1974	WHITNEY	ONT	CAN	45.25	78.16	460	S	1.07	84	73.0	56cm, 12m
8.100-7434910.0		1974	WHITNEY	ONT	CAN	45.25	78.16	460	S	1.69	84	88.0	
8.100-7434930.0		1974	WHITNEY	ONT	CAN	45.25	78.16	460	N/A	1.19	79	71.3	
(8.300) BETULA OCCIDENTALIS [water (black) birch]													
8.300-7474240.0		1974	HEDLEY	BC	CAN	49.15	120.00	460	S	.32	79	73.5	8cm, 5m
(8.500) BETULA PAPYRIFERA [white (paper) birch]													
8.500-7520430.0		1975	PARC DE LA VERENDRYE	QUE	CAN	46.49	76.08	335	S	.47	85	35.0	24cm, 18m
8.500-7520450.0		1975	PARC DE LA VERENDRYE	QUE	CAN	46.49	76.08	335	S	.45	85	22.5	14cm, 18m
8.500-7520460.0		1975	PARC DE LA VERENDRYE	QUE	CAN	46.49	76.08	335	S	.72	85	55.0	11cm, 12m
8.500-7520470.0		1975	PARC DE LA VERENDRYE	QUE	CAN	46.49	76.08	335	S	.48	85	58.0	12cm, 14m
8.500-7520490.0		1975	PARC DE LA VERENDRYE	QUE	CAN	46.49	76.08	335	S	.36	85	43.5	18cm, 16m
8.500-7530250.0		1975	PETAWAWA NAT. FOR. INST	ONT	CAN	46.00	77.26	150	S	.31	79	72.7	30cm, 14m
8.500-7540270.0		1975	SANDY LANDS FOR. RESERVE	MAN	CAN	49.20	96.18	370	B(2)	.27	84	46.0	15-18cm, 6-18m
8.500-7540310.0		1975	AGASSIZ FOR. RESERVE	MAN	CAN	50.00	96.15	460	B(2)	.38	84	72.0	5-25cm, 5-15m
8.500-7540320.0		1975	AGASSIZ FOR. RESERVE	MAN	CAN	50.00	96.15	460	B(2)	.30	84	40.0	5-25cm, 5-15m
8.500-7571380.0		1975	HOPE	BC	CAN	49.15	121.30	30	S	.47	85	58.5	
8.500-7732000.0		1977	RAMSEY LAKE	ONT	CAN	46.30	81.00	250	B	.35	84	80.0	
8.500-8360629.0		1983	FORT MCMURRAY	ALTA	CAN	57.05	111.35	305	N/A	.18	84	31.5	
(8.600) BETULA PENDULA [silver (weeping) birch]													
8.600-7984730.0		1979	HANAU 5 SEED ORCHARD	DEU		50.08	8.52E	110	S	.18	85	35.5	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
8.600-8181020.0		1981	MOGILEVSKAYA OBLAST		SUN	54.00	30.00E		B	.18	84	54.0	
8.600-8181030.0		1981	KARELSKAYA, ASSR		SUN	65.00	35.00E		B	.25	84	75.0	
8.600-8181040.0		1981	KARELSKAYA, ASSR		SUN	65.00	35.00E		B	.20	84	66.0	
8.600-8181050.0		1981	KARELSKAYA, ASSR		SUN	65.00	35.00E		B	.26	84	75.0	
8.600-8181060.0		1981	KOSTROMSKAYA OBLAST		SUN	57.30	41.00E		B	.18	84	46.0	
8.600-8280573.0		1982	KRONBERG 2 SEED ORCHARD		DEU	50.10	8.31E	180	N/A	.20	85	91.5	
8.600-8280574.0		1982	USINGEN 3 SEED ORCHARD		DEU	50.17	8.36E	420	S	.18	85	72.5	
8.600-8280575.0		1982	RHINELAND PALATINATE		DEU	50.51	7.00E	200	N/A	.27	85	47.0	
8.600-8280576.0		1982	GRODZIEC		POL	52.12	16.21E	90	N/A	.20	85	90.0	
8.600-8280577.0		1982	KRONBERG 1 SEED ORCHARD		DEU	50.10	8.31E	200	S	.14	85	72.5	
8.600-8480036.0		1984	LOCH RANNOCH		SCO	56.40	4.35	250	S	.34	84	57.5	FROM R B.GREER
8.600-8480990.0		1984	BLAIR ATHOLL		SCO	56.40	4.35	140	S	.25	85	47.5	
(8.650) BETULA PLATYPHYLLA													
8.650-8380665.0		1983	PAO-CHI, SHENSI PROV.		CHN	35.00	107.00E	1500	N/A	.16	85	28.0	
8.650-8480987.0		1984	HEILUNGKIANG PROVINCE		CHN	47.00	129.00E		N/A	.32	85	98.0	
(8.800) BETULA PUBESCENS (downy birch)													
8.800-7683900.0		1976	TARTU REGN (AARDLA)ESTON		SUN	58 22	26.46E	70	B	.21	79	79.8	
8.800-7984740.0		1979	DANNDORF 5 SEED ORCHARD		DEU	52.31	10.56E	60	S	.29	85	94.0	
8.800-7984750.0		1979	DANNDORF 7 SEED ORCHARD		DEU	52.31	10.56E	60	N/A	.31	85	77.5	
8.800-7984760.0		1979	DANNDORF 12 SEED ORCHARD		DEU	52.31	10.56E	60	S	.27	85	89.5	
8.800-7984770.0		1979	DANNDORF 17 SEED ORCHARD		DEU	52.31	10.56E	60	S	.23	85	93.0	
8.800-7984780.0		1979	DANNDORF 18 SEED ORCHARD		DEU	52.31	10.56E	60	S	.33	85	67.0	
(8.900) BETULA VERRUCOSA (European white birch)													
8.900-7683890.0		1976	MAHTRA FOREST, ESTONIA		SUN	59 10	24.46E	80	B	.21	79	79.9	
(10.200) CARPINUS CAROLINIANA (blue-beech; hornbeam)													
10.200-8430044.0		1984	CHARLESTON LAKE	ONT	CAN	44.31	76.01	120	B(5)	22.29	84	82.7	3-10cm, 3-8m
(12.300) CATALPA SPECIOSA (catalpa)													
12.300-8330639.0		1983	HALDIMAND	ONT	CAN	43.00	79.50		B(10)	17.49	84	76.0	
(20.200) FAGUS GRANDIFOLIA (American beech)													
20.200-8430039.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	192.25	84	93.0	45cm, 23m, 95y
20.200-8430041.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	223.04	84	70.0	45cm, 15m
(21.100) FRAXINUS AMERICANA (white ash)													
21.100-7732920.0	10439.00	1977	RONDEAU PROV. PARK	ONT	CAN	42.18	81.51	170	S	41.81	84	38.6	
21.100-7733170.0	10464.00	1977	NIAGARA-ON-THE-LAKE	ONT	CAN	43.16	79.04	75	S	43.58	84	32.0	
21.100-7733300.0	10477.00	1977	TURNBERRY TOWNSHIP	ONT	CAN	43.55	81.19	300	S	53.12	84	52.0	
21.100-7733330.0	10480.00	1977	TURNBERRY TOWNSHIP	ONT	CAN	43.55	81.19	300	S	57.26	84	61.3	
21.100-7733360.0	10483.00	1977	DUNGANNON	ONT	CAN	43.52	81.35	244	S	53.14	84	28.0	
21.100-7733380.0	10485.00	1977	DUNGANNON	ONT	CAN	43.52	81.35	244	S	57.99	84	54.7	
21.100-7733420.0	10489.00	1977	TARA	ONT	CAN	44.26	81.12	244	S	44.47	84	62.7	
21.100-7733430.0	10490.00	1977	TARA	ONT	CAN	44.26	81.12	244	S	51.11	84	46.7	

SEED LIST/LISTE DES SEMENCES

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21.100-7733450.0	10492.00	1977	TARA	ONT	CAN	44.26	81.12	244	S	49.54	84	37.3	
21.100-7733780.0	10525.00	1977	SIBBALT	ONT	CAN	44.17	79.14	213	S	47.20	84	32.0	
(21.150) FRAXINUS CHINENSIS													
21.150-8480988.0		1984	PEKING MUNICIPALITY		CHN	40.00	116.00E	42	N/A	26.69	85	82.5	
(21.500) FRAXINUS PENNSYLVANICA (red ash)													
21.500-7733960.0	10543.00	1977	ROSS TOWNSHIP	ONT	CAN	45.41	76.43	90	S	34.97	84	21.0	9m
21.500-7733990.0	10546.00	1977	OSGOODE TOWNSHIP	ONT	CAN	45.13	75.34	90	S	47.26	84	56.0	
21.500-7734010.0	10548.00	1977	OSGOODE TOWNSHIP	ONT	CAN	45.13	75.34	90	S	47.32	84	51.0	
21.500-7734020.0	10549.00	1977	DRUMMOND TOWNSHIP	ONT	CAN	44.58	76.20	150	S	38.82	84	55.5	
21.500-7734040.0	10551.00	1977	DRUMMOND TOWNSHIP	ONT	CAN	44.58	76.20	150	S	49.38	84	62.0	
21.500-7734050.0	10552.00	1977	DRUMMOND TOWNSHIP	ONT	CAN	44.58	76.20	150	S	35.56	84	57.0	
21.500-7734070.0	10554.00	1977	ROXBOROUGH TOWNSHIP	ONT	CAN	45.12	74.55	90	S	56.67	84	60.5	17m
21.500-7734090.0	10556.00	1977	ROXBOROUGH TOWNSHIP	ONT	CAN	45.12	74.55	90	S	50.02	84	49.0	
21.500-7734150.0	10562.00	1977	WILLIAMSBURG TOWNSHIP	ONT	CAN	44.50	75.11	80	S	37.52	84	32.0	
21.500-7734160.0	10563.00	1977	WILLIAMSBURG TOWNSHIP	ONT	CAN	44.50	75.11	80	S	40.31	84	43.0	
21.500-7734230.0	10570.00	1977	SOPERTON	ONT	CAN	44.37	76.03	90	S	37.70	84	55.0	
21.500-7734270.0	10574.00	1977	ERNESTOWN TOWNSHIP	ONT	CAN	44.10	76.48	80	S	35.92	84	70.0	
21.500-7734280.0	10575.00	1977	ERNESTOWN TOWNSHIP	ONT	CAN	44.10	76.48	80	S	27.70	84	57.5	
21.500-7734290.0	10576.00	1977	ERNESTOWN TOWNSHIP	ONT	CAN	44.10	76.48	80	S	44.12	84	53.0	
21.500-7734310.0	10578.00	1977	ERNESTOWN TOWNSHIP	ONT	CAN	44.10	76.48	80	S	30.38	84	70.0	
21.500-7734400.0	10587.00	1977	ELZEVIR TOWNSHIP	ONT	CAN	44.34	77.16	150	S	25.73	84	57.0	
21.500-7734410.0	10588.00	1977	ELZEVIR TOWNSHIP	ONT	CAN	44.34	77.16	150	S	27.58	84	29.3	
21.500-7734470.0	10594.00	1977	RONDEAU PROV. PARK	ONT	CAN	42.07	81.51	180	S	35.14	84	63.0	
21.500-7734480.0	10595.00	1977	RONDEAU PROV. PARK	ONT	CAN	42.07	81.51	180	S	24.53	84	30.0	
21.500-7734490.0	10596.00	1977	RONDEAU PROV. PARK	ONT	CAN	42.07	81.51	180	S	50.94	84	46.5	
21.500-7734580.0	10605.00	1977	BLENHEIM	ONT	CAN	42.19	81.57	180	S	38.92	84	54.0	
21.500-7734660.0	10613.00	1977	NORWICH	ONT	CAN	42.59	80.33	213	S	39.68	84	40.0	
21.500-7734730.0	10620.00	1977	PORT DOVER	ONT	CAN	42.51	80.10	213	S	39.08	84	54.0	
21.500-7734790.0	10626.00	1977	NIAGARA-ON-THE-LAKE	ONT	CAN	43.14	79.10	76	S	34.08	84	44.0	
21.500-7734830.0	10630.00	1977	WAINFLEET, NEWARK PARK	ONT	CAN	42.56	79.23		S	36.71	84	48.0	
21.500-7734880.0	10635.00	1977	WESTOVER	ONT	CAN	43.20	80.05	244	S	26.07	84	63.0	
21.500-7734890.0	10636.00	1977	WESTOVER	ONT	CAN	43.20	80.05	244	S	27.60	84	35.0	
21.500-7734950.0	10642.00	1977	WINGHAM	ONT	CAN	43.55	81.23	305	S	38.92	85	46.0	
21.500-7735060.0	10653.00	1977	MEAFORD	ONT	CAN	44.35	80.31	183	S	36.12	84	62.0	
21.500-7735070.0	10654.00	1977	MEAFORD	ONT	CAN	44.35	80.31	183	S	33.02	85	32.0	
21.500-7735140.0	10661.00	1977	TINY MARSH	ONT	CAN	44.36	79.56	213	S	21.10	84	43.5	
21.500-7735170.0	10664.00	1977	TINY MARSH	ONT	CAN	44.36	79.56	213	S	34.88	84	65.3	
21.500-7735190.0	10666.00	1977	STOUFFVILLE	ONT	CAN	43.57	79.14	213	S	41.45	84	47.0	
21.500-7736000.0	10698.00	1977	CUMBERLAND	ONT	CAN	45.31	75.25	91	S	38.78	85	32.0	
21.500-7736040.0	10702.00	1977	CUMBERLAND	ONT	CAN	45.31	75.25	91	S	29.59	84	79.0	
21.500-8330071.0		1983	CITY OF THOROLD	ONT	CAN	43.07	79.22		S	44.32	84	51.0	26:m.18m
(28.100) LARIX DECIDUA (European larch)													
28.100-7286160.0		1972	SABINOV		CSK	49.05	20.40E	450	B	4.41	78	52.0	
28.100-7584720.0		1975	POV BYSTRICA		CSK	49.07	18.26E	500	B	5.24	83	21.0	
28.100-7687590.0		1976	HNUSTA		CSK	48.42	19.57E	800	B	4.44	83	26.0	
28.100-7983980.0		1979	CHOCEN		CSK	50.00	16.18E	260	B	5.86	79	41.0	
28.100-8380648.0		1983	MLADA BOLESLAV, BREZNO		CSK	50.30	15.00E	270	N/A	5.52	84	59.0	FROM K. VANCURA
28.100-8380649.0		1983	CESKY KRUMLOV, CHVALSINY		CSK	48.80	14.10E	520	N/A	6.33	84	48.0	FROM K. VANCURA

SEED LIST/LISTE DES SEMENCES

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28.100-8380650.0		1983	RAAJEC, LETOVICE		CSK	49.60	16.50E	440	N/A	5.73	84	58.5	FROM K. VANCURA
(28.300) LARIX GMELINI (Dahurian larch)													
28.300-7195500.0	9963.00	1971	HEILUNG-KIANG PROV.		CHN	47.00	129.00E		B	4.28	83	86.5	
28.300-8081120.0		1980	KIRIN PROVINCE		CHN	44.00	126.00E		B	6.52	84	58.0	
28.300-8081830.0		1980	YAKUTSKAYA, ASSR		SUN	62.00	13.00E		B	3.08	84	47.0	
28.300-8380678.0		1983	HU-LUN-PEI-ERH		CHN	50.00	124.00E	200	N/A	4.98	85	89.0	
(28.350) LARIX GMELINI var. OLGENSIS													
28.350-8081130.0		1980	KIRIN PROVINCE		CHN	44.00	126.00E		B	5.00	83	57.0	
28.350-8180860.0		1981	KIRIN PROVINCE		CHN	44.00	126.00E		B	4.50	83	54.0	
(28.400) LARIX LARICINA (tamarack, eastern larch)													
28.400-6730210.0	8529.00	1967	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.26	180	N/A	1.53	84	60.0	
28.400-7031510.0	7174.00	1970	BISSETT CREEK	ONT	CAN	46.13	78.01	171	S	2.35	84	96.0	
28.400-7031540.0	7175.00	1970	BISSETT CREEK	ONT	CAN	46.13	78.01	171	S	2.83	84	96.5	
28.400-7031560.0	7183.00	1970	SUPPLE LAKE	ONT	CAN	45.49	77.18	187	S	2.26	84	67.0	25cm, 15m, 22y
28.400-7031570.0	7816.00	1970	SUPPLE LAKE	ONT	CAN	45.49	77.18	187	S	2.22	84	25.5	23cm, 16m, 25y
28.400-7031580.0	7817.00	1970	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.25	168	S	1.91	84	61.0	
28.400-7031590.0	7818.00	1970	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.25	168	S	2.07	**	77.5	
28.400-7031610.0	7819.00	1970	PETAWAWA NAT. FOR. INST	ONT	CAN	45.58	77.25	168	S	2.47	84	69.5	
28.400-7930150.0	9520.00	1979	BOBCAYGEON ROAD	ONT	CAN	45.00	78.46	480	S	2.10	83	88.0	23cm, 15m
28.400-7930170.0	9522.00	1979	BOBCAYGEON ROAD	ONT	CAN	45.00	78.46	480	S	2.10	83	80.0	25cm, 20m
28.400-7930280.0	9636.00	1979	CORNWALL DIST. (60-6200)	ONT	CAN	45.12	75.04	80	B	2.15	85	70.5	
28.400-7930290.0	9637.00	1979	ROBERTSON LAKE	ONT	CAN	45.12	76.36	275	B	2.80	83	84.0	6-31cm, 5-16m, 9-27y
28.400-7930300.0	9638.00	1979	OXFORD TOWNSHIP	ONT	CAN	44.55	75.39	90	B	2.40	83	86.0	9-12m, 15-25y
28.400-7930310.0	9639.00	1979	CARLSBAD SPRINGS	ONT	CAN	45.22	75.28		B(25)	2.30	83	84.0	15-20m, 25-35y
28.400-7930320.0	9640.00	1979	GLOUCESTER TOWNSHIP	ONT	CAN	45.22	75.30		B(15)	2.30	83	60.0	15-22m, 30-60y
28.400-7930760.0	9641.00	1979	MURRAY TOWNSHIP	ONT	CAN	44.12	77.44	120	B(8)	2.10	83	77.0	14-18m, 50-70y
28.400-7931570.0	9617.00	1979	IGNACE TOWNSHIP	ONT	CAN	49.25	91.40	450	S	2.00	83	89.0	26cm, 20m, 60-65y
28.400-7931590.0	9619.00	1979	IGNACE TOWNSHIP	ONT	CAN	49.25	91.40	450	S	1.60	83	97.0	24cm, 17m, 58-63y
28.400-7931640.0	9624.00	1979	IGNACE TOWNSHIP	ONT	CAN	49.25	91.40	450	S	1.80	84	93.0	30cm, 20m, 59-64y
28.400-8233200.0		1982	CARLETON DISTRICT	ONT	CAN	45.08	76.09		S	2.30	85	64.0	
(28.700) LARIX OCCIDENTALIS (western larch)													
28.700-8470085.0		1984	FLATHEAD VALLEY	BC	CAN	49.04	114.24	1500	S	3.49	85	60.0	43.2cm, 22.6m
(28.720) LARIX OLGENSIS													
28.720-8480985.0		1984	KIRIN PROVINCE		CHN	43.00	126.00E		N/A	5.14	85	71.0	
(28.800) LARIX SIBIRICA (Siberian larch)													
28.800-7155680.0	9984.00	1971	INDIAN HEAD	SASK	CAN	50.31	103.41	590	B	11.18	84	71.0	11-31cm, 13-23m, 61y
(31.695) PAULOWNIA FARGESII													
31.695-8480984.0		1984	KIANGSU PROVINCE		CHN	32.00	120.00E		N/A	.28	85	82.5	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
(32.100) PICEA ABIES (Norway spruce)													
32.100-6730870.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	150	B	11.95	83	78.5	
32.100-6730880.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	150	B	8.70	83	87.0	
32.100-6880270.0		1968	IVANTJARN		SWE	60.48	16.45E	240	B	6.65	83	85.5	
32.100-6880280.0		1968	CENTRAL FINLAND		FIN	62.00	24.00E		B	5.22	83	34.5	
32.100-7383260.0		1973	COSNA FOR DIST.		ROM	27.00	45.00E		B	7.38	83	76.5	
32.100-7383270.0		1973	MOLDOVITA DIST.		ROM	46.50	27.00E		B	7.75	83	72.7	
32.100-7486820.0		1974	PRIENU, LITHUANIAN SSR		SUN	54.12	23.51E	107	S	7.01	83	77.0	49cm, 36m, 150y
32.100-7486830.0		1974	VILNIAUS, LITHUANIAN SSR		SUN	54.48	25.18E	150	S	6.84	83	61.3	38cm, 31m, 90y
32.100-7581500.0		1975	TARTU RES FOR ESTONIAN		SUN	58.22	26.46E	60	B	6.25	83	91.0	
32.100-7885990.0		1978	VILJANDI NR.98 ESTONIA		SUN	58.15	25.15E	120	S	7.89	83	79.0	32cm, 33m, 85y
32.100-7886790.0		1978	LENINGRAD OBLAST		SUN	60.00	31.00E		B	6.16	83	78.0	
32.100-7886800.0		1978	PSKOV OBLAST		SUN	57.00	27.00E		B	6.67	83	67.0	
32.100-7886810.0		1978	ARKHANGEI'SK OBLAST		SUN	68.00	45.00E		B	4.79	83	51.8	
32.100-7886820.0		1978	VOLOGDA OBLAST		SUN	58.00	40.00E		B	5.69	83	71.7	
32.100-7886830.0		1978	KOSTROMA OBLAST		SUN	57.00	42.00E		B	4.94	83	70.3	
32.100-7886840.0		1978	KALININ OBLAST		SUN	57.00	37.00E		B	7.12	83	92.1	
32.100-7886850.0		1978	KALUGA OBLAST		SUN	53.00	36.00E		B	6.46	83	68.8	
32.100-7984100.0		1979	YAROSLAVSKA OBLAST		SUN	57.00	39.00E		B	5.19	83	76.5	
32.100-7984110.0		1979	KOSTROMSKAYA OBLAST		SUN	58.00	41.00E		B	5.03	83	71.0	
32.100-8181010.0		1981	KALUZHKAYA OBLAST		SUN	54.00	35.00E		B	6.04	83	61.5	
32.100-8380651.0		1983	BUCHLOVICE, ROSTIN		CSK	49.20	17.40E	450	N/A	7.98	84	80.5	FROM K. VANCURA
32.100-8380652.0		1983	HARRACHOV VITKOVICE		CSK	50.80	15.40E	850	N/A	8.48	84	69.5	FROM K. VANCURA
32.100-8380653.0		1983	ZVESTOVICE		CSK	49.60	14.30E	600	N/A	7.26	84	83.5	FROM K. VANCURA
32.100-8480952.0		1984	G. AMOT		SWE	61.00	16.30E	250	N/A	5.02	85	84.0	
32.100-8480953.0		1984	OVANAKER HOMYREN		SWE	61.15	15.45E	200	N/A	5.30	85	44.5	
(32.400) PICEA ENGELMANNII (Engelmann spruce)													
32.400-7161950.0		1971	HIGHWOOD SUMMIT	ALTA	CAN	50.20	114.30	2225	B	1.88	83	40.5	15m
32.400-8470992.0		1984	BASTION MOUNTAIN	BC	CAN	50.52	119.09	1600	B(50)	2.13	85	79.0	
32.400-8470993.0		1984	ADAM'S LAKE	BC	CAN	51.30	119.30	1400	B(12)	2.06	85	77.5	
(32.500) PICEA GLAUCA (white spruce)													
32.500-0024370.0	8604.00	1955	ANGUS	ONT	CAN	44.15	79.55	220	N/A	2.66	83	35.3	
32.500-0024560.0	8002.00	1956	LAKE ST. PATRICK	QUE	CAN	46.18	77.19	304	B	2.05	83	39.4	
32.500-0024590.0	8623.00	1956	ALGONQUIN PARK	ONT	CAN	45.34	78.36	426	S	1.97	83	91.0	
32.500-0024600.0	8624.00	1956	MAYNOOTH	ONT	CAN	45.14	77.56	394	N/A	2.22	83	39.5	
32.500-0024620.0	8626.00	1956	MCNALLY LAKE	QUE	CAN	46.32	76.30	243	N/A	2.12	83	35.0	
32.500-0024660.0	8629.00	1956	MANITOULIN IS.	ONT	CAN	45.50	82.55	205	N/A	2.17	83	51.0	
32.500-0024690.0	8632.00	1956	AYLMER LAKE	QUE	CAN	45.59	71.22	304	S	2.30	83	58.5	
32.500-0024720.0	8005.00	1956	PRICE	QUE	CAN	48.36	68.07	304	S	1.84	83	38.0	
32.500-0024770.0	8639.00	1956	ASHLEY MINES (WIGWAG LK)	ONT	CAN	48.00	81.00	365	S	1.78	83	36.0	
32.500-0024840.0	8645.00	1956	MITCHINAMEKUS L.	QUE	CAN	47.23	75.09	396	S	1.77	83	36.0	
32.500-0024850.0	8646.00	1956	LAC SIMARD	QUE	CAN	47.32	78.37	274	S	2.02	83	50.0	
32.500-0025560.0	8652.00		N. SEAL CREEK	MAN	CAN	56 56	92.51	30	S	2.07	83	33.0	
32.500-0026940.0	8657.00	1960	ACADIA FOR. EXP. STA.	NB	CAN	46.00	66.21	76	S	2.36	83	65.5	
32.500-0028700.0	8661.00	1959	KAPUSKASING	ONT	CAN	48.55	82.47	259	S	2.08	83	34.8	
32.500-0028950.0	8662.00		GRAND PILES	QUE	CAN	46.45	73.05	365	S	2.23	83	47.0	
32.500-0051930.0	8676.00		WESTMEATH TOWNSHIP	ONT	CAN	45.50	76.50	121	S	2.05	83	55.0	ST. 1601
32.500-5310010.0	8693.00	1953	KLONDYKE ROAD	PEI	CAN	46.25	62.28	60	S	2.46	83	60.1	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-5620220.0	8616.00	1956	CASEY	QUE	CAN	47.53	74.11		N/A	1.65	83	35.5	
32.500-5810010.0	8694.00	1958	GYPSUM MINES	NS	CAN	44.59	64.04	30	N/A	2.10	83	86.0	
32.500-6030480.0		1960	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	N/A	1.90	83	67.5	
32.500-6530740.0		1965	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.90	83	41.2	ST 1851
32.500-6530760.0		1965	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.40	83	84.9	ST 1854
32.500-6531000.0		1965	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.25	83	45.5	ST 1853
32.500-6630010.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	N/A	2.94	83	69.5	
32.500-6630020.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	N/A	3.24	83	88.0	ST 1861
32.500-6632390.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	2.32	84	75.0	
32.500-6730660.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.73	83	53.5	ST. 1622
32.500-6730670.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.92	83	53.5	ST. 1624
32.500-6730680.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.69	83	89.0	ST. 1625
32.500-6730690.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.10	83	96.0	ST. 1746
32.500-6730700.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.47	83	66.0	ST. 1747
32.500-6730710.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.10	83	68.0	ST. 1750
32.500-6730740.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.20	83	67.8	ST 1851
32.500-6730750.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.55	83	79.0	ST. 1852
32.500-6730760.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.99	83	80.0	ST. 1854
32.500-6730800.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.01	83	63.5	ST 1862
32.500-6730830.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	B	2.19	83	77.5	
32.500-6731000.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.78	83	87.6	ST 1853
32.500-6731020.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.28	83	96.0	ST 1856
32.500-6731030.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.64	83	89.5	ST 1859
32.500-6731050.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.53	83	90.0	ST 1864
32.500-6731060.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	1.53	83	37.0	ST. 1865
32.500-6731110.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.44	83	96.5	ST. 1756
32.500-6731120.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.56	83	82.5	ST. 1757
32.500-6731800.0		1967	SAULT STE MARIE	ONT	CAN	46.31	84.20		N/A	2.10	83	88.5	
32.500-6800190.0	8007.00	1968	GANDER	NFLD	CAN	48.57	54.45	91	B	2.71	83	37.5	
32.500-7000780.0	8080.00	1970	GRAND FALLS	NFLD	CAN	48.55	55.51	106	B	2.76	83	96.5	3-13m, 15-48y
32.500-7000790.0	8096.00	1970	GRAND LAKE	NFLD	CAN	48.53	57.36	45	B	3.28	83	93.0	10-25cm, 3-8m, 15y
32.500-7010750.0	8055.00	1970	ACADIA FOR. EXP. STA.	NB	CAN	46.00	66.21	76	N/A	2.33	84	95.0	
32.500-7011120.0	8119.00	1970	HARBOUR CENTRE	NS	CAN	45.47	61.56	91	N/A	2.20	83	95.5	
32.500-7011150.0	8137.00	1970	ST. ANN'S	NS	CAN	46.16	60.37	137	B	2.48	83	85.0	15-30cm, 11m, 70y
32.500-7011160.0	8001.00	1970	GLENCOE	NS	CAN	45.57	61.18	167	B	2.60	83	69.0	18cm, 39-47y
32.500-7011170.0	8148.00	1970	BASE GAGETOWN	NB	CAN	45.32	66.21	167	N/A	2.13	83	92.0	
32.500-7020760.0	8041.00	1970	ST. ELZEAR	QUE	CAN	48.15	65.27	365	S	2.35	83	64.5	18cm, 15m, 70y
32.500-7020770.0	8042.00	1970	LAC LA TORTUE	QUE	CAN	46.39	72.36	131	S	2.08	83	96.5	18cm, 15m, 70y
32.500-7020800.0	8103.00	1970	WATOPEKA FOREST	QUE	CAN	45.35	71.54	213	S	2.62	83	95.5	18cm, 12m, 40y
32.500-7020810.0		1970	WOBURN	QUE	CAN	45.18	70.53	853	S	2.89	83	95.5	20cm, 14m, 70y
32.500-7030550.0	8713.01	1970	BEACHBURG	ONT	CAN	45.45	76.50	137	S	2.44	84	33.0	ST 2451
32.500-7030560.0	8713.02	1970	BEACHBURG, COTNAM'S IS.	ONT	CAN	45.45	76.50	137	S	2.47	83	89.5	ST 2452
32.500-7030640.0	8713.08	1970	BEACHBURG	ONT	CAN	45.45	76.50	137	S	2.27	83	96.0	ST 2460
32.500-7030670.0	8714.01	1970	ALICE	ONT	CAN	45.45	77.18	182	S	2.55	83	93.5	ST 2463
32.500-7030700.0	8714.03	1970	ALICE	ONT	CAN	45.45	77.18	182	S	2.01	83	95.5	ST 2466
32.500-7030730.0	8714.05	1970	ALICE	ONT	CAN	45.45	77.18	182	S	3.20	83	88.5	ST 2469
32.500-7030740.0	8143.00	1970	COCHRANE	ONT	CAN	49.10	81.15	265	N/A	2.22	83	65.0	
32.500-7031130.0		1970	RANWICK MINE	ONT	CAN	47.15	83.35	228	B	2.21	83	91.5	18-24m, 90-140y
32.500-7061820.0	8160.00	1970	NORDEGG	ALTA	CAN	52.11	116.00	1524	N/A	2.70	78	87.0	
32.500-7061830.0		1970	ROCKY MTN HOUSE	ALTA	CAN	52.35	115.15	762	N/A	2.60	84	85.0	
32.500-7063220.0	8314.00	1970	SLAVE LAKE	ALTA	CAN	55.14	114.36	610	B	2.32	83	42.4	
32.500-7072020.0	8169.00	1970	SUNDOWN CREEK	BC	CAN	55.20	120.40	1127	N/A	2.11	83	38.0	
32.500-7073740.0	8217.00	1970	PARROTT LAKE	BC	CAN	54.11	126.40	823	B	1.83	83	42.7	
32.500-7073760.0	8219.00	1970	GAGNON CR.	BC	CAN	55.15	123.05	914	B	2.00	83	45.7	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7073800.0	8223.00	1970	MCDAME POST	BC	CAN	59 10	129.15	762	B	1.91	83	47.5	
32.500-7073820.0	8225.00	1970	FORT FRASER	BC	CAN	53 52	124.37	762	B	1.79	83	33.5	
32.500-7073830.0	8226.00	1970	LOWER POST	BC	CAN	59.55	128.30	640	B	1.79	83	35.5	
32.500-7100450.0	8171.00	1971	PASADENA	NFLD	CAN	49.01	57.37	45	N/A	3.01	83	88.2	
32.500-7130500.0		1971	ALICE	ONT	CAN	45.45	77.18	182	N/A	2.70	83	94.0	
32.500-7130510.0		1971	ALICE	ONT	CAN	45.45	77.18	182	N/A	2.28	83	47.8	
32.500-7130560.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.48	83	95.0	
32.500-7130570.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	2.69	83	88.6	
32.500-7130580.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	2.63	83	96.5	
32.500-7130590.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	2.50	83	98.5	
32.500-7130600.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	2.36	83	96.0	
32.500-7130610.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	B	2.50	83	68.0	
32.500-7130620.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.89	83	98.0	
32.500-7130630.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.23	83	97.0	
32.500-7130640.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.90	83	97.4	
32.500-7130650.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	3.21	83	95.0	
32.500-7130660.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	1.92	83	98.0	
32.500-7130670.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.15	83	87.0	
32.500-7130680.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	N/A	2.27	83	90.5	
32.500-7130700.0		1971	WHITNEY	ONT	CAN	45.31	78.15	457	B(2)	2.49	83	81.0	
32.500-7132350.0	8214.01	1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.19	83	70.7	
32.500-7132380.0	8214.03	1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.78	83	78.5	
32.500-7132440.0	8214.09	1971	WHITNEY	ONT	CAN	45.31	78.15	457	S	2.82	83	99.0	
32.500-7132450.0	8016.01	1971	TROUT CREEK, GURD TWP.	ONT	CAN	45.59	79.27	335	S	2.41	83	91.5	29cm, 11m, 28y
32.500-7132460.0	8016.02	1971	TROUT CREEK, GURD TWP.	ONT	CAN	45.59	79.27	335	S	3.34	83	94.0	32cm, 12m, 31y
32.500-7132470.0	8016.03	1971	TROUT CREEK, GURD TWP.	ONT	CAN	45.59	79.27	335	S	3.54	83	72.5	36cm, 13m, 27y
32.500-7132520.0	8016.08	1971	TROUT CREEK, GURD TWP.	ONT	CAN	45.59	79.27	335	S	3.33	83	85.5	38cm, 12m
32.500-7132540.0	8016.10	1971	TROUT CREEK, GURD TWP.	ONT	CAN	45.59	79.27	335	S	2.45	83	93.0	29cm, 15m, 29y
32.500-7132550.0	8153.01	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.14	83	96.0	
32.500-7132560.0	8153.02	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.05	83	100.0	
32.500-7132570.0	8153.03	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.27	83	92.0	
32.500-7132580.0	8153.04	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.60	83	82.0	
32.500-7132590.0	8153.05	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.34	83	93.0	
32.500-7132620.0	8153.08	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.04	83	92.0	
32.500-7132630.0	8153.09	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	2.22	83	71.5	
32.500-7132640.0	8153.10	1971	BIG JOCKO RIVER	ONT	CAN	46.36	79.10	304	S	3.48	83	90.0	
32.500-7132650.0	8019.01	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.44	83	59.5	51cm, 23m, 65y
32.500-7132660.0	8019.02	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.27	83	78.5	46cm, 24m, 53y
32.500-7132670.0	8019.03	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.33	83	94.5	33cm, 21m, 48y
32.500-7132690.0	8019.05	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.91	83	97.5	34cm, 23m, 78y
32.500-7132700.0	8019.06	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.08	83	62.5	
32.500-7132710.0	8019.07	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	1.88	83	99.5	
32.500-7132720.0	8019.08	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.18	83	92.0	
32.500-7132730.0	8019.09	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.10	83	50.0	
32.500-7132740.0	8019.10	1971	RUTHERGLEN, CALVIN TWP.	ONT	CAN	46.17	79.04	228	S	2.39	83	94.0	
32.500-7132790.0	8020.05	1971	ESTAIRE, SERVOS TWP.	ONT	CAN	46.14	80.43	213	S	2.26	83	94.0	
32.500-7132810.0	8020.07	1971	ESTAIRE, SERVOS TWP.	ONT	CAN	46.14	80.43	213	S	1.58	83	93.5	
32.500-7132840.0	8037.01	1971	SEARCHMONT	ONT	CAN	46.44	83.56	365	S	2.72	83	98.5	
32.500-7132870.0	8037.04	1971	SEARCHMONT	ONT	CAN	46.44	83.56	365	S	2.52	83	59.0	
32.500-7132980.0	8039.08	1971	WAWA	ONT	CAN	47.55	84.45	304	S	2.11	83	48.0	
32.500-7133000.0	8045.01	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	2.16	83	99.0	
32.500-7133010.0	8045.02	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	2.34	83	92.5	
32.500-7133040.0	8045.05	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	1.59	83	88.5	
32.500-7133050.0	8045.06	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	2.37	83	98.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7133060.0	8045.07	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	1.71	83	58.5	
32.500-7133070.0	8045.08	1971	BOUCHARD LAKE	ONT	CAN	48.47	85.30	457	S	1.60	83	86.0	
32.500-7133110.0	8087.03	1971	PIDGEON RIVER	ONT	CAN	48.01	89.39	304	S	1.94	83	59.5	
32.500-7133160.0	8087.08	1971	PIDGEON RIVER	ONT	CAN	48.01	89.39	304	S	1.85	83	54.5	
32.500-7133180.0	8088.02	1971	SHEBANDOWAN	ONT	CAN	48.37	90.11	457	S	2.74	83	94.5	
32.500-7133190.0	8088.03	1971	SHEBANDOWAN	ONT	CAN	48.37	90.11	457	S	1.92	83	85.5	
32.500-7133210.0	8088.05	1971	SHEBANDOWAN	ONT	CAN	48.37	90.11	457	S	2.10	83	66.5	
32.500-7133220.0	8088.06	1971	SHEBANDOWAN	ONT	CAN	48.37	90.11	457	S	2.36	83	98.5	
32.500-7133230.0	8089.01	1971	EVA LAKE	ONT	CAN	48.40	91.25	426	S	1.47	83	78.5	
32.500-7133260.0	8089.04	1971	EVA LAKE	ONT	CAN	48.40	91.25	426	S	1.70	83	69.5	
32.500-7133280.0	8089.06	1971	EVA LAKE	ONT	CAN	48.40	91.25	426	S	1.98	83	77.0	
32.500-7133290.0	8089.07	1971	EVA LAKE	ONT	CAN	48.40	91.25	426	S	1.54	83	87.0	
32.500-7133300.0	8056.01	1971	NIPIGON	ONT	CAN	49.12	88.13	228	S	2.10	83	92.5	
32.500-7133400.0	8097.01	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.54	83	98.5	
32.500-7133410.0	8097.02	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	2.67	83	96.5	
32.500-7133420.0	8097.03	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.88	83	95.5	
32.500-7133430.0	8097.04	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.64	83	90.0	
32.500-7133440.0	8097.05	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.92	83	76.5	
32.500-7133450.0	8097.06	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.64	83	99.0	
32.500-7133460.0	8097.07	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.63	83	90.5	
32.500-7133470.0	8097.08	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.84	83	89.5	
32.500-7133480.0	8097.09	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	1.87	83	98.0	
32.500-7133490.0	8097.10	1971	FINLAND	ONT	CAN	48.57	93.56	365	S	2.16	83	90.5	
32.500-7133500.0	8098.01	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.14	83	69.0	
32.500-7133510.0	8098.02	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.17	83	96.5	
32.500-7133520.0	8098.03	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.09	83	82.0	
32.500-7133530.0	8098.04	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.22	83	98.0	33cm, 15m
32.500-7133540.0	8098.05	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.73	83	92.0	34cm, 17m
32.500-7133550.0	8098.06	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.01	83	78.5	
32.500-7133560.0	8098.07	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	1.92	83	53.5	
32.500-7133580.0	8098.09	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.11	83	85.0	24cm, 20m
32.500-7133590.0	8098.10	1971	SIOUX NARROWS	ONT	CAN	49.30	94.04	335	S	2.50	83	63.5	36cm, 18m
32.500-7133610.0	8099.02	1971	KENORA	ONT	CAN	49.45	94.36	365	S	1.87	83	77.5	27cm, 20m
32.500-7133620.0	8099.03	1971	KENORA	ONT	CAN	49.45	94.36	365	S	2.36	83	90.0	29cm, 18m
32.500-7133630.0	8099.04	1971	KENORA	ONT	CAN	49.45	94.36	365	S	1.89	83	88.5	35cm, 20m
32.500-7133640.0	8099.05	1971	KENORA	ONT	CAN	49.45	94.36	365	S	2.28	83	99.0	20m
32.500-7133650.0	8099.06	1971	KENORA	ONT	CAN	49.45	94.36	365	S	2.22	83	97.0	
32.500-7133660.0	8099.07	1971	KENORA	ONT	CAN	49.45	94.36	365	S	1.63	83	95.0	
32.500-7133670.0	8099.08	1971	KENORA	ONT	CAN	48.42	93.03	335	S	1.70	83	94.0	
32.500-7133700.0	8100.01	1971	RAINY LAKE	ONT	CAN	48.42	93.03	335	S	2.08	83	69.5	
32.500-7133710.0	8100.02	1971	RAINY LAKE	ONT	CAN	48.42	93.03	335	S	2.00	83	35.0	
32.500-7133720.0	8100.03	1971	RAINY LAKE	ONT	CAN	48.42	93.03	335	S	2.12	83	68.5	
32.500-7133730.0	8100.04	1971	RAINY LAKE	ONT	CAN	48.42	93.03	335	S	1.86	83	37.5	
32.500-7133780.0	8106.03	1971	CAMP ROBINSON	ONT	CAN	50.10	93.15	365	S	2.53	83	98.5	
32.500-7133860.0	8107.01	1971	SIOUX LOOKOUT	ONT	CAN	50.07	91.50	381	S	2.75	83	67.5	32cm, 18m, 80y
32.500-7133910.0	8108.01	1971	EAR FALLS	ONT	CAN	50.40	93.12	365	S	2.57	83	51.0	26cm, 16m
32.500-7133920.0	8108.02	1971	EAR FALLS	ONT	CAN	50.40	93.12	365	S	2.27	83	64.0	26cm, 16m
32.500-7133930.0	8108.03	1971	EAR FALLS	ONT	CAN	50.40	93.12	365	S	2.32	83	91.5	29cm, 17m, 64y
32.500-7134050.0	8109.05	1971	RED LAKE	ONT	CAN	51.02	93.48	365	S	2.35	83	91.0	24cm, 16m
32.500-7134100.0	8057.01	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	1.79	83	97.5	21m, 50+m
32.500-7134110.0	8057.02	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	1.49	83	73.5	
32.500-7134120.0	8057.03	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	2.26	83	93.5	
32.500-7134130.0	8057.04	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	2.10	83	94.0	
32.500-7134140.0	8057.05	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	2.25	83	96.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7134150.0	8057.06	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	1.72	83	95.0	
32.500-7134160.0	8057.07	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	2.05	83	95.5	
32.500-7134170.0	8057.08	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	2.25	83	94.0	
32.500-7134180.0	8057.09	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	1.73	83	94.0	
32.500-7134190.0	8057.10	1971	BLACK STURGEON LAKE	ONT	CAN	49.30	89.03	274	S	1.77	83	82.0	
32.500-7135630.0	8048.01	1971	CLUTE TOWNSHIP	ONT	CAN	49.05	81.15	289	N/A	2.25	83	69.5	
32.500-7136210.0		1971	REEVES TWP, FOLEYET	ONT	CAN	48.15	82.00		N/A	1.94	83	80.0	
32.500-7151000.0	8134.01	1971	CANDLE LAKE	SASK	CAN	53.55	104.50	502	B	2.28	83	75.0	20-24m, 70-100y
32.500-7151010.0	8135.00	1971	MEADOW LAKE	SASK	CAN	53.50	108.40	640	B	2.13	83	82.5	17-20m, 50-70y
32.500-7230710.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.82	83	99.5	
32.500-7230730.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	N/A	2.35	83	50.5	
32.500-7230770.0		1972	SAND L. ROAD	ONT	CAN	45.50	77.20	182	S	2.77	83	93.0	
32.500-7230780.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	3.64	83	58.5	
32.500-7230790.0		1972	SAND L. ROAD	ONT	CAN	45.50	77.20	182	S	2.39	83	96.5	
32.500-7230800.0		1972	SAND L. ROAD	ONT	CAN	45.50	77.20	182	N/A	2.52	83	92.5	
32.500-7230810.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.98	83	88.0	30cm, 9m
32.500-7230820.0		1972	BEACHBURG	ONT	CAN	45.45	76.50	137	N/A	3.45	83	100.0	
32.500-7230830.0		1972	BEACHBURG	ONT	CAN	45.45	76.50	137	N/A	3.02	83	95.5	
32.500-7230850.0		1972	BEACHBURG	ONT	CAN	45.45	76.50	137	S	2.93	83	90.0	25cm, 12m
32.500-7230860.0		1972	BEACHBURG	ONT	CAN	45.45	76.50	137	S	2.41	83	85.0	48cm, 18m
32.500-7230870.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	B	2.88	83	82.5	15-20cm, 9-12m
32.500-7230880.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.76	83	96.5	53cm, 12m
32.500-7230890.0	8319.01	1972	DAVIS MILLS	ONT	CAN	45.45	77.15	152	S	2.83	83	86.0	53cm, 20m
32.500-7230970.0		1972	BIGGAR LAKE	ONT	CAN	45.52	77.30	243	S	2.78	83	64.5	
32.500-7231050.0	8029.06	1972	RANKIN	ONT	CAN	45.45	77.10	152	S	3.22	83	90.5	25cm, 9m
32.500-7231140.0	8027.04	1972	IRVINE CREEK	ONT	CAN	45.00	77.17	300	S	2.71	83	85.0	
32.500-7231160.0	8027.06	1972	IRVINE CREEK	ONT	CAN	45.00	77.17	300	S	3.32	83	86.5	
32.500-7231230.0	8027.13	1972	IRVINE CREEK	ONT	CAN	45.00	77.17	300	B(3)	2.69	83	92.5	
32.500-7231270.0		1972	APSLEY	ONT	CAN	44.45	78.08	365	N/A	2.02	83	96.5	
32.500-7232640.0	8021.07	1972	NAIRN TOWNSHIP	ONT	CAN	46.20	81.41	243	S	2.35	83	83.5	
32.500-7330600.0	8110.03	1973	NEEDLE LAKE	ONT	CAN	49.57	92.31	396	S	2.07	83	85.0	
32.500-7330850.0	8068.06	1973	UPSALA	ONT	CAN	49.04	90.31	487	S	2.16	83	53.0	
32.500-7330870.0	8068.08	1973	UPSALA	ONT	CAN	49.04	90.31	487	S	2.22	83	55.0	
32.500-7330880.0	8068.09	1973	UPSALA	ONT	CAN	49.04	90.31	487	S	2.15	83	33.0	
32.500-7331060.0	8113.03	1973	UCHI LAKE	ONT	CAN	50.48	93.08	381	S	1.97	83	43.0	
32.500-7333330.0	8114.00	1973	EAR FALLS	ONT	CAN	50.42	93.22	381	B	2.22	83	90.0	
32.500-7333240.0	8115.00	1973	RED LAKE, DOME TWP.	ONT	CAN	51.06	93.46	396	B	2.18	83	79.0	
32.500-7333350.0	8102.00	1973	WHITE DOG FALLS	ONT	CAN	50.07	94.52	350	B	2.16	83	81.0	
32.500-7341270.0	8131.00	1973	BERNIC L.	MAN	CAN	50.25	95.36	274	B	2.40	83	95.0	
32.500-7341280.0	8128.00	1973	ANGLE INLET	MAN	CAN	49.19	95.20	335	B	2.11	83	98.0	
32.500-7341290.0	8129.00	1973	WEST HAWK L.	MAN	CAN	49.47	95.15	335	B	2.14	84	86.5	
32.500-7430410.0	8024.02	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	2.35	85	94.4	46cm, 14m
32.500-7430420.0	8024.03	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	1.91	85	94.5	34cm, 14m
32.500-7430430.0	8024.04	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	1.83	85	99.0	38cm, 15m
32.500-7430450.0	8024.06	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	2.17	84	91.5	42cm, 20m
32.500-7430460.0	8024.07	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	S	2.58	85	93.0	39cm, 12m
32.500-7430500.0	8024.11	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	1.93	83	44.0	
32.500-7430540.0	8155.01	1974	DOUGLAS	ONT	CAN	45.30	77.01	121	S	2.57	85	95.0	46cm, 22m
32.500-7430570.0	8155.04	1974	DOUGLAS	ONT	CAN	45.30	77.01	121	S	2.00	85	99.5	32cm, 15m
32.500-7430580.0	8155.05	1974	DOUGLAS	ONT	CAN	45.30	77.01	121	S	2.47	85	98.5	41cm, 17m
32.500-7430590.0	8155.06	1974	DOUGLAS	ONT	CAN	45.33	77.00	121	S	2.66	84	94.5	43cm, 15m
32.500-7430600.0	8155.07	1974	DOUGLAS	ONT	CAN	45.33	77.00	121	S	1.91	84	96.0	27cm, 14m
32.500-7430610.0	8155.08	1974	DOUGLAS	ONT	CAN	45.33	77.00	121	S	2.43	83	94.0	33cm, 17m
32.500-7430630.0	8155.10	1974	DOUGLAS	ONT	CAN	45.33	77.00	121	S	2.87	83	36.0	47cm, 21m

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7430660.0	8155.13	1974	DOUGLAS	ONT	CAN	45.38	77.04	152	S	2.86	83	94.0	37cm, 12m
32.500-7430710.0	8028.05	1974	RENFREW	ONT	CAN	45.28	76.44	121	S	2.31	85	74.5	22cm, 9m
32.500-7430750.0	8028.09	1974	RENFREW	ONT	CAN	45.28	76.44	121	S	2.39	85	94.0	36cm, 18m
32.500-7430790.0	8028.13	1974	RENFREW	ONT	CAN	45.28	76.44	121	S	2.79	83	98.0	22cm, 11m
32.500-7430800.0	8028.14	1974	RENFREW	ONT	CAN	45.28	76.44	121	S	3.34	83	94.0	24cm, 11m
32.500-7430810.0	8028.15	1974	RENFREW	ONT	CAN	45.28	76.44	121	S	2.59	83	97.0	27cm, 9m
32.500-7430830.0	8032.01	1974	ANTRIM	ONT	CAN	45.19	76.11	121	S	2.19	85	90.5	41cm, 12m
32.500-7430850.0	8032.03	1974	ANTRIM	ONT	CAN	45.19	76.11	121	S	2.11	85	94.4	41cm, 15m
32.500-7430870.0	8032.05	1974	ANTRIM	ONT	CAN	45.19	76.11	121	S	2.73	85	73.1	38cm, 12m
32.500-7430940.0	8025.01	1974	BANCROFT	ONT	CAN	45.06	77.58	381	S	2.25	85	84.0	25cm, 9m
32.500-7430950.0	8025.02	1974	BANCROFT	ONT	CAN	45.06	77.58	381	S	1.94	83	82.0	28cm, 14m
32.500-7430970.0	8025.04	1974	BANCROFT	ONT	CAN	45.06	77.58	381	S	1.83	85	94.0	35cm, 15m
32.500-7430980.0	8025.05	1974	BANCROFT	ONT	CAN	45.06	78.02	396	S	1.95	85	89.0	44cm, 27m
32.500-7431000.0	8025.07	1974	BANCROFT	ONT	CAN	45.06	78.02	396	S	1.87	84	94.5	48cm, 24m
32.500-7431010.0	8025.08	1974	BANCROFT	ONT	CAN	45.06	78.02	396	S	1.77	85	94.0	45cm, 30m
32.500-7431020.0	8025.09	1974	BANCROFT	ONT	CAN	45.06	78.02	396	S	2.57	84	90.0	41cm, 23m
32.500-7431030.0	8025.10	1974	BANCROFT	ONT	CAN	45.06	78.02	396	S	3.22	85	96.5	51cm, 24m
32.500-7431040.0	8211.01	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.80	85	92.0	53cm, 15m
32.500-7431050.0	8211.02	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.35	85	83.0	54cm, 17m
32.500-7431060.0	8211.03	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.15	75	69.5	56cm, 18m
32.500-7431070.0	8211.04	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.29	85	98.0	32cm, 21m
32.500-7431080.0	8211.05	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.31	83	86.0	42cm, 20m
32.500-7431090.0	8211.06	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.35	83	90.0	49cm, 17m
32.500-7431100.0	8211.07	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.58	83	96.0	39cm, 20m
32.500-7431110.0	8211.08	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.18	83	98.0	35cm, 18m
32.500-7431120.0	8211.09	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.59	85	75.5	30cm, 20m
32.500-7431130.0	8211.10	1974	APSLEY, ANSTROTHER TWP.	ONT	CAN	44.55	78.04	365	S	2.64	85	96.5	39cm, 18m
32.500-7431150.0	8210.02	1974	SILVER LAKE	ONT	CAN	44.49	76.41	182	S	2.06	85	92.5	32cm, 10m
32.500-7431240.0	8210.00	1974	SILVER LAKE	ONT	CAN	44.49	76.41	182	S	2.57	83	96.0	26cm, 12m
32.500-7431250.0	8210.00	1974	SILVER LAKE	ONT	CAN	44.49	76.41	182	B(10)	2.20	85	89.5	9-18m
32.500-7431260.0	8210.00	1974	SILVER LAKE	ONT	CAN	44.49	76.41	182	S	2.71	83	99.0	26cm, 17m
32.500-7431270.0	8015.47	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.17	85	98.0	54cm, 20m
32.500-7431280.0	8015.01	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.73	85	68.5	37cm, 20m
32.500-7431300.0	8015.03	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.22	85	95.5	48cm, 15m
32.500-7431310.0	8015.04	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.94	85	91.0	45cm, 20m
32.500-7431320.0	8015.05	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.15	85	97.5	35cm, 15m
32.500-7431330.0	8015.06	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.33	83	98.0	38cm, 17m
32.500-7431340.0	8015.07	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.34	85	98.5	32cm, 17m
32.500-7431350.0	8015.08	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.63	85	95.5	34cm, 17m
32.500-7431360.0	8015.09	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.97	85	100.0	26cm, 9m
32.500-7431370.0	8015.10	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.67	83	98.0	50cm, 14m
32.500-7431380.0	8015.11	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.17	85	96.5	38cm, 18m
32.500-7431390.0	8015.12	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.09	83	100.0	33cm, 18m
32.500-7431400.0	8015.13	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.77	85	94.5	37cm, 15m
32.500-7431410.0	8015.14	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.42	83	94.0	37cm, 15m
32.500-7431420.0	8015.15	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.00	85	94.0	30cm, 15m
32.500-7431430.0	8015.16	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.31	83	100.0	38cm, 20m
32.500-7431440.0	8015.17	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.94	85	97.0	45cm, 24m
32.500-7431450.0	8015.18	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.41	83	100.0	40cm, 18m
32.500-7431460.0	8015.19	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.50	85	84.5	42cm, 20m
32.500-7431470.0	8015.20	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.99	85	93.0	36cm, 20m
32.500-7431480.0	8015.21	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.73	83	97.0	25cm, 17m
32.500-7431490.0	8015.22	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.53	85	99.5	41cm, 17m
32.500-7431510.0	8015.24	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.96	85	46.5	40cm, 17m

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32.500-7431520.0	8015.25	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.25	85	96.0	40cm, 20m
32.500-7431530.0	8015.26	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.28	83	100.0	30cm, 17m
32.500-7431540.0	8015.27	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.76	85	96.5	40cm, 18m
32.500-7431550.0	8015.28	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.29	83	98.0	43cm, 17m
32.500-7431560.0	8015.29	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	3.43	83	100.0	48cm, 20m
32.500-7431570.0	8015.30	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.72	83	100.0	51cm, 18m
32.500-7431580.0	8015.31	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.22	85	93.0	61cm, 20m
32.500-7431590.0	8015.32	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.94	85	84.5	
32.500-7431600.0	8015.33	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.34	85	96.0	
32.500-7431610.0	8015.34	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.18	83	100.0	30cm, 11m
32.500-7431620.0	8015.35	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.20	85	87.9	29cm, 14m
32.500-7431630.0	8015.36	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.02	83	100.0	41cm, 17m
32.500-7431640.0	8015.37	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.32	85	98.0	23cm, 14m
32.500-7431650.0	8015.38	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.86	83	100.0	46cm, 18m
32.500-7431660.0	8015.39	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.15	85	94.5	37cm, 21m
32.500-7431670.0	8015.40	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.19	83	100.0	33cm, 18m
32.500-7431680.0	8015.41	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.93	85	92.0	25cm, 15m
32.500-7431690.0	8015.42	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.37	83	100.0	29cm, 17m
32.500-7431700.0	8015.43	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.90	85	92.5	38cm, 17m
32.500-7431710.0	8015.44	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	1.98	83	100.0	46cm, 17m
32.500-7431720.0	8015.45	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.21	85	93.5	43cm, 17m
32.500-7431730.0	8015.46	1974	WHITNEY	ONT	CAN	45.32	78.16	396	S	2.31	83	100.0	51cm, 20m
32.500-7431860.0	8026.13	1974	BEACHBURG	ONT	CAN	45.44	76.51	152	S	2.32	85	97.0	27cm, 8m
32.500-7431910.0	8024.16	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.27	182	S	3.78	85	75.5	24cm, 12m
32.500-7431930.0	8024.18	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	2.13	85	91.4	56cm, 21m
32.500-7431950.0	8024.20	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	1.94	85	92.5	51cm, 15m
32.500-7431960.0	8024.21	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	2.33	85	76.0	56cm, 17m
32.500-7431970.0	8024.22	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	1.90	85	85.3	46cm, 14m
32.500-7431980.0	8024.23	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	2.22	83	53.0	36cm, 16m
32.500-7431990.0	8024.24	1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	2.59	85	95.5	33cm, 20m
32.500-7434280.0		1974	SWASTIKA, BURT TWP.	ONT	CAN	48.01	80.20	300	S	2.13	83	82.0	
32.500-7434290.0		1974	GEORGIAN BAY	ONT	CAN	46.14	80.43	213	N/A	2.60	83	87.0	
32.500-7434320.0		1974	SERVOS TOWNSHIP	ONT	CAN	46.14	80.43	213	N/A	1.91	83	84.0	
32.500-7434420.0	8049.02	1974	CLUTE TOWNSHIP	ONT	CAN	49.10	81.14	289	N/A	2.32	83	99.0	
32.500-7434480.0	8049.08	1974	CLUTE TOWNSHIP	ONT	CAN	49.10	81.14	289	N/A	3.08	83	91.0	
32.500-7434950.0		1974	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.20	182	S	2.17	83	58.0	ST 1866 X 1865
32.500-7435490.0	8050.00	1974	WHITE RIVER	ONT	CAN	48.33	85.12	450	B	2.58	83	79.0	
32.500-7435550.0	8017.02	1974	MCKELLAR	ONT	CAN	45.35	79.52	275	S	1.94	83	87.0	
32.500-7435570.0	8017.03	1974	MCKELLAR	ONT	CAN	45.35	79.52	275	S	2.35	83	84.0	
32.500-7435630.0	8239.00	1974	DORSET	ONT	CAN	45.16	78.58	335	S	2.83	83	69.0	
32.500-7435690.0	8239.03	1974	DORSET	ONT	CAN	45.16	78.58	335	S	2.35	83	95.0	
32.500-7435700.0	8239.04	1974	DORSET	ONT	CAN	45.16	78.58	335	S	1.88	83	49.0	
32.500-7435750.0	8031.02	1974	MATTAWAN TOWNSHIP	ONT	CAN	46.23	78.54	305	S	2.79	83	44.0	
32.500-7435840.0	8038.02	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	2.59	84	33.5	
32.500-7435850.0	8038.03	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	2.13	83	73.0	
32.500-7435870.0	8038.04	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	1.90	83	61.0	
32.500-7435890.0	8038.05	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	2.02	83	71.0	
32.500-7435900.0	8038.06	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	2.35	83	89.0	
32.500-7435910.0	8038.07	1974	ENGLEHART	ONT	CAN	47.52	79.55	215	S	2.59	83	69.0	
32.500-7435920.0	8235.00	1974	DENTON TOWNSHIP	ONT	CAN	48.19	81.46	335	B	1.85	83	77.0	
32.500-7436010.0		1974	SOUTH RIVER	ONT	CAN	45.54	79.23	365	S	2.53	83	94.0	
32.500-7436060.0		1974	SOUTH RIVER	ONT	CAN	45.54	79.23	365	S	2.50	83	98.0	
32.500-7436070.0		1974	SOUTH RIVER	ONT	CAN	45.54	79.23	365	S	2.31	83	87.0	
32.500-7436100.0		1974	SOUTH RIVER	ONT	CAN	45.54	79.23	365	S	2.34	83	53.0	

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32.500-7436210.0	8156.04	1974	SHANNONVILLE	ONT	CAN	44.14	77.15	90	N/A	1.72	83	79.0	
32.500-7436260.0	8013.02	1974	POLAND	ONT	CAN	45.03	76.35	245	S	2.75	83	85.0	
32.500-7436280.0	8013.04	1974	POLAND	ONT	CAN	45.03	76.35	245	S	2.25	83	71.0	
32.500-7436290.0	8013.05	1974	POLAND	ONT	CAN	45.03	76.35	245	S	2.24	84	60.0	
32.500-7436300.0	8013.06	1974	POLAND	ONT	CAN	45.03	76.35	245	S	1.92	83	91.0	
32.500-7436330.0	8209.01	1974	MARLBOROUGH TOWNSHIP	ONT	CAN	45.02	75.50	90	S	2.82	83	37.0	
32.500-7436340.0	8209.02	1974	MARLBOROUGH TOWNSHIP	ONT	CAN	45.02	75.50	90	S	1.80	83	54.0	
32.500-7436380.0	8209.04	1974	MARLBOROUGH TOWNSHIP	ONT	CAN	45.02	75.50	90	S	2.67	83	57.0	
32.500-7436390.0	8011.01	1974	HAVELOCK	ONT	CAN	44.26	77.50	180	N/A	2.67	84	54.0	
32.500-7436630.0	8044.09	1974	SWASTIKA, BURT TWP.	ONT	CAN	48.02	80.22	300	S	2.24	83	77.0	
32.500-7466950.0	8142.00	1974	FOOTNER LAKE	ALTA	CAN	57.55	115.30	460	B	2.32	83	86.0	
32.500-7466960.0	8316.00	1974	SLAVE LAKE FOREST	ALTA	CAN	56.38	114.35	730	B	2.05	83	40.0	
32.500-7477170.0	8227.00	1974	CANYON LAKE	BC	CAN	53.01	123.12	1280	B	1.89	83	39.0	
32.500-7477180.0	8228.00	1974	STRATHNAVER	BC	CAN	53.18	122.12	1158	B	2.04	84	21.5	
32.500-7477190.0	8229.00	1974	UNITI CR.	BC	CAN	53.08	122.08	945	B	1.87	83	69.0	
32.500-7477200.0	8230.00	1974	WILLIAMSON CR.	BC	CAN	49.17	118.53	671	B	2.18	83	61.0	
32.500-7477220.0	8232.00	1974	GREYBACK MTN.	BC	CAN	49.36	119.17	1585	B	1.76	83	50.0	
32.500-7531520.0	8067.02	1975	MANITOUWADGE, STRUTHEM	ONT	CAN	48.43	85.52	335	S	3.41	83	100.0	
32.500-7531530.0	8067.03	1975	MANITOUWADGE, STRUTHEM	ONT	CAN	48.43	85.52	335	S	2.39	83	100.0	
32.500-7531570.0	8067.07	1975	MANITOUWADGE, STRUTHEM	ONT	CAN	48.43	85.52	335	S	2.66	85	93.0	
32.500-7531620.0	8066.02	1975	MANITOUWADGE	ONT	CAN	49.17	85.58	305	S	2.06	83	85.0	
32.500-7531630.0	8066.03	1975	MANITOUWADGE	ONT	CAN	49.17	85.58	305	S	2.03	84	92.5	
32.500-7531680.0	8066.08	1975	MANITOUWADGE	ONT	CAN	49.17	85.58	305	S	2.03	83	90.0	
32.500-7531700.0	8066.10	1975	MANITOUWADGE	ONT	CAN	49.17	85.58	305	S	2.84	83	94.0	
32.500-7531730.0	8085.03	1975	MANITOUWADGE	ONT	CAN	49.17	85.54	260	S	2.09	83	98.0	
32.500-7531760.0	8085.06	1975	MANITOUWADGE	ONT	CAN	49.17	85.54	260	S	3.40	83	97.0	
32.500-7531800.0	8085.10	1975	MANITOUWADGE	ONT	CAN	49.17	85.54	260	S	2.19	83	99.0	
32.500-7531810.0	8061.01	1975	CARAMAT	ONT	CAN	49.36	86.09	305	B	1.92	83	100.0	12-30m, 40-100y
32.500-7531820.0	8061.02	1975	CARAMAT	ONT	CAN	49.36	86.09	305	S	2.08	84	97.5	
32.500-7531830.0	8061.03	1975	CARAMAT	ONT	CAN	49.36	86.09	305	S	1.66	84	95.5	
32.500-7531840.0	8061.04	1975	CARAMAT	ONT	CAN	49.36	86.09	305	S	2.58	83	88.0	
32.500-7531880.0	8061.08	1975	CARAMAT	ONT	CAN	49.36	86.09	305	S	2.52	83	96.0	
32.500-7531890.0	8061.09	1975	CARAMAT	ONT	CAN	49.36	86.09	305	S	2.20	85	90.5	
32.500-7531970.0	8052.07	1975	WHITE RIVER	ONT	CAN	48.37	85.19	305	S	2.47	83	96.0	
32.500-7532030.0	8051.03	1975	MOBERT	ONT	CAN	48.42	85.35	305	S	2.48	83	69.0	
32.500-7532060.0	8051.06	1975	MOBERT	ONT	CAN	48.42	85.35	305	S	2.11	83	99.0	
32.500-7532090.0	8051.09	1975	MOBERT	ONT	CAN	48.42	85.35	305	S	2.52	84	97.5	
32.500-7532110.0	8064.01	1975	TERRACE BAY	ONT	CAN	48.47	87.07	200	S	2.30	83	95.0	
32.500-7532120.0	8064.02	1975	TERRACE BAY	ONT	CAN	48.47	87.07	200	S	2.38	83	52.0	
32.500-7532150.0	8064.05	1975	TERRACE BAY	ONT	CAN	48.47	87.07	200	S	2.23	84	89.0	
32.500-7532180.0	8064.08	1975	TERRACE BAY	ONT	CAN	48.47	87.07	200	S	1.93	83	100.0	
32.500-7532200.0	8064.10	1975	TERRACE BAY	ONT	CAN	48.47	87.07	200	S	3.10	83	91.0	
32.500-7532290.0	8081.09	1975	FALSE CREEK	ONT	CAN	49.52	86.52	365	S	2.05	83	90.0	
32.500-7532300.0	8081.10	1975	FALSE CREEK	ONT	CAN	49.52	86.52	365	S	2.20	83	100.0	
32.500-7532330.0	8062.03	1975	GREER ROAD	ONT	CAN	49.56	87.07	305	S	2.10	83	100.0	
32.500-7532380.0	8062.08	1975	GREER ROAD	ONT	CAN	49.56	87.07	305	S	1.87	83	97.0	
32.500-7532400.0	8062.10	1975	GREER ROAD	ONT	CAN	49.56	87.07	305	S	2.37	83	99.0	
32.500-7532420.0	8082.02	1975	BEARDMORE	ONT	CAN	49.33	88.00	365	S	2.17	83	100.0	
32.500-7532430.0	8082.03	1975	BEARDMORE	ONT	CAN	49.33	88.00	365	S	2.58	84	74.5	
32.500-7532490.0	8082.09	1975	BEARDMORE	ONT	CAN	49.33	88.00	365	S	1.88	83	100.0	
32.500-7532510.0	8060.01	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	B	1.60	83	98.0	25-36cm, 18-21m
32.500-7532520.0	8060.02	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	1.96	83	98.0	
32.500-7532540.0	8060.04	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	1.80	83	96.0	
32.500-7532550.0	8060.05	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	2.28	83	98.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7532570.0	8060.07	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	1.97	83	100.0	
32.500-7532590.0	8060.09	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	1.90	83	94.0	
32.500-7532600.0	8060.10	1975	WAWEIG LAKE	ONT	CAN	50.09	89.07	305	S	2.24	83	98.0	
32.500-7532610.0	8083.01	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	1.94	83	98.0	9m
32.500-7532630.0	8083.03	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	2.57	83	100.0	
32.500-7532650.0	8083.05	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	1.83	83	100.0	
32.500-7532660.0	8083.06	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	2.18	84	92.0	
32.500-7532670.0	8083.07	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	2.06	84	95.5	
32.500-7532680.0	8083.08	1975	KENOGAMI RIVER	ONT	CAN	49.55	86.29	305	S	2.41	83	97.0	
32.500-7532730.0	8063.03	1975	PIC RIVER	ONT	CAN	48.42	86.15	240	S	2.86	85	92.5	
32.500-7532780.0	8063.08	1975	PIC RIVER	ONT	CAN	48.42	86.15	240	S	1.88	83	95.0	
32.500-7532820.0	8093.02	1975	MCKENZIE	ONT	CAN	48.33	88.58	275	S	1.90	85	36.0	
32.500-7533160.0	8069.08	1975	TWIST LAKE	ONT	CAN	49.22	89.45	425	S	2.02	83	35.0	
32.500-7533180.0	8069.10	1975	TWIST LAKE	ONT	CAN	49.22	89.45	425	S	2.19	84	89.5	
32.500-7533400.0	8065.03	1975	O'SULLIVAN LAKE	ONT	CAN	50.32	87.01	335	S	1.85	84	33.5	
32.500-7533410.0	8065.04	1975	O'SULLIVAN LAKE	ONT	CAN	50.32	87.01	335	S	1.95	84	59.0	
32.500-7533470.0	8076.01	1975	LONG LAKE	ONT	CAN	49.13	87.04	335	S	2.46	83	75.0	
32.500-7533500.0	8076.04	1975	LONG LAKE	ONT	CAN	49.13	87.04	335	S	2.82	83	80.0	
32.500-7533510.0	8076.05	1975	LONG LAKE	ONT	CAN	49.13	87.04	335	S	2.06	83	66.0	
32.500-7533520.0	8076.06	1975	LONG LAKE	ONT	CAN	49.13	87.04	335	S	2.10	83	70.0	
32.500-7533750.0	8047.19	1975	ARNOTT TOWNSHIP	ONT	CAN	49.37	84.35	275	S	2.82	83	85.0	
32.500-7533850.0	8075.10	1975	NAKINA	ONT	CAN	50.12	86.47	335	S	2.18	83	45.0	
32.500-7533920.0	8240.05	1975	PARKS LAKE	ONT	CAN	49.28	87.34	460	S	3.06	83	90.0	
32.500-7533950.0	8240.08	1975	PARKS LAKE	ONT	CAN	49.28	87.34	460	S	1.86	83	83.0	
32.500-7534070.0	8084.09	1975	SHABAQUA CORNERS	ONT	CAN	48.37	89.54	410	S	2.64	83	91.0	
32.500-7534130.0	8077.05	1975	S. ONAMAN RIVER	ONT	CAN	50.02	87.39	305	S	2.30	84	46.0	
32.500-7534160.0	8077.08	1975	S. ONAMAN RIVER	ONT	CAN	50.02	87.39	305	S	2.02	83	60.0	
32.500-7534180.0	8077.10	1975	S. ONAMAN RIVER	ONT	CAN	50.02	87.39	305	S	1.93	83	74.0	
32.500-7534190.0	8043.01	1975	PAGWA	ONT	CAN	49.46	85.25	245	S	2.51	83	86.0	
32.500-7534210.0	8043.03	1975	PAGWA	ONT	CAN	49.46	85.25	245	S	2.48	83	91.0	
32.500-7534240.0	8043.06	1975	PAGWA	ONT	CAN	49.46	85.25	245	S	2.41	83	84.0	
32.500-7534260.0	8043.08	1975	PAGWA	ONT	CAN	49.46	85.25	245	S	2.32	83	85.0	
32.500-7534280.0	8043.10	1975	PAGWA	ONT	CAN	49.46	85.25	245	S	2.44	84	65.0	
32.500-7534290.0	8079.01	1975	JELLICOE	ONT	CAN	49.42	87.25	365	S	2.41	83	89.0	
32.500-7534310.0	8079.03	1975	JELLICOE	ONT	CAN	49.42	87.25	365	S	1.91	84	81.5	
32.500-7534350.0	8079.07	1975	JELLICOE	ONT	CAN	49.42	87.25	365	S	2.11	83	65.0	
32.500-7534370.0	8079.09	1975	JELLICOE	ONT	CAN	49.42	87.25	365	S	2.26	83	87.0	
32.500-7534450.0	8078.07	1975	AUDEN	ONT	CAN	50.09	87.53	335	S	1.90	83	52.0	
32.500-7534580.0	8090.00	1975	THUNDER BAY, BLAKE TWP.	ONT	CAN	48.13	89.24	305	B	2.16	83	71.0	
32.500-7534590.0	8073.00	1975	THUNDER BAY MACMASTER TP	ONT	CAN	48.58	88.37	305	B	2.07	83	99.0	
32.500-7534620.0	8072.00	1975	THUNDER BAY, DOG RIVER	ONT	CAN	49.23	89.45	425	B	1.81	83	98.0	
32.500-7534630.0	8092.00	1975	GRAHAM	ONT	CAN	49.15	90.35	490	B	1.69	83	91.0	
32.500-7534640.0	8322.00	1975	THUNDER BAY	ONT	CAN	49.05	89.11	455	B	2.02	83	88.0	
32.500-7561460.0	8141.00	1975	ATHABASCA FOR.	ALTA	CAN	57.08	111.38	275	B	2.04	85	38.0	
32.500-7614220.0	8204.00	1976	PINEVALE	NS	CAN	45.29	61.58	150	N/A	2.39	85	47.5	
32.500-7614240.0	8206.00	1976	MCGRATH'S MTN.	NS	CAN	45.32	62.21	150	N/A	2.50	85	47.5	
32.500-7630720.0		1976	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	*	2.63	85	84.5	* 1 OR 2 TREES
32.500-7631090.0	8161.09	1976	ALICE	ONT	CAN	45.46	77.17	150	S	2.14	85	97.5	25cm, 12m, 25y
32.500-7631110.0	8161.11	1976	ALICE	ONT	CAN	45.46	77.17	150	S	2.52	85	93.0	
32.500-7632000.0	8163.01	1976	LORRAINE TOWNSHIP	ONT	CAN	47.15	79.31	240	S	3.30	85	78.5	
32.500-7632200.0	8165.01	1976	PECK TOWNSHIP	ONT	CAN	45.29	78.45	460	S	2.57	85	88.5	
32.500-7632230.0	8165.04	1976	PECK TOWNSHIP	ONT	CAN	45.29	78.45	460	S	2.28	85	32.0	
32.500-7632240.0	8165.05	1976	PECK TOWNSHIP	ONT	CAN	45.29	78.45	460	S	3.22	85	51.0	
32.500-7632400.0	8167.01	1976	ARMOUR TOWNSHIP	ONT	CAN	45.37	79.25	300	S	2.09	85	71.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7632410.0	8167.00	1976	ARMOUR TOWNSHIP	ONT	CAN	45.37	79.25	300	S	2.85	85	97.0	
32.500-7632490.0	8167.10	1976	ARMOUR TOWNSHIP	ONT	CAN	45.37	79.25	300	S	2.06	85	90.0	
32.500-7632510.0	8168.02	1976	CHISHOLM TOWNSHIP	ONT	CAN	46.08	79.16	275	S	3.62	85	98.0	
32.500-7632560.0	8168.07	1976	CHISHOLM TOWNSHIP	ONT	CAN	46.08	79.16	275	S	2.65	85	95.5	
32.500-7632570.0	8168.08	1976	CHISHOLM TOWNSHIP	ONT	CAN	46.08	79.16	275	S	3.17	85	87.5	
32.500-7632590.0	8168.10	1976	CHISHOLM TOWNSHIP	ONT	CAN	46.08	79.16	275	S	2.96	85	89.4	
32.500-7632650.0	8157.06	1976	MATTAWAN TOWNSHIP	ONT	CAN	46.23	78.54	305	S	2.11	85	31.0	
32.500-7632680.0	8157.09	1976	MATTAWAN TOWNSHIP	ONT	CAN	46.23	78.54	305	S	2.06	85	88.5	
32.500-7632690.0	8157.10	1976	MATTAWAN TOWNSHIP	ONT	CAN	46.23	78.54	305	S	2.34	85	56.5	
32.500-7633050.0	8186.01	1976	BONFIELD TOWNSHIP	ONT	CAN	46.14	79.08	245	S	2.49	85	97.5	
32.500-7633070.0	8186.03	1976	BONFIELD TOWNSHIP	ONT	CAN	46.14	79.08	245	S	2.31	85	96.5	
32.500-7633080.0	8186.04	1976	BONFIELD TOWNSHIP	ONT	CAN	46.14	79.08	245	S	1.87	85	90.0	
32.500-7633140.0	8186.10	1976	BONFIELD TOWNSHIP	ONT	CAN	46.14	79.08	245	S	2.79	85	96.5	
32.500-7633160.0	8187.02	1976	BOWMAN TOWNSHIP	ONT	CAN	48.29	80.25	290	S	2.43	85	79.0	
32.500-7633170.0	8187.03	1976	BOWMAN TOWNSHIP	ONT	CAN	48.29	80.25	290	S	2.54	85	96.0	
32.500-7633180.0	8187.04	1976	BOWMAN TOWNSHIP	ONT	CAN	48.29	80.25	290	S	2.46	85	95.0	
32.500-7633210.0	8187.07	1976	BOWMAN TOWNSHIP	ONT	CAN	43.29	80.25	290	S	2.32	85	83.0	
32.500-7633220.0	8187.08	1976	BOWMAN TOWNSHIP	ONT	CAN	48.29	80.25	290	S	2.18	85	97.5	
32.500-7633570.0		1976	SILVER LAKE	ONT	CAN	44.49	76.41	180	S	2.68	85	92.0	46cm, 11m, 25-30y
32.500-7633590.0		1976	SILVER LAKE	ONT	CAN	44.49	76.41	180	S	3.17	85	90.0	20cm, 6m, 18y
32.500-7633640.0	8352.02	1976	FORESTER FALLS	ONT	CAN	45.41	76.48	140	S	2.05	85	94.5	39cm, 12m, 30y
32.500-7633650.0	8352.03	1976	FORESTER FALLS	ONT	CAN	45.41	76.48	140	S	2.14	85	97.5	43cm, 12m, 45y
32.500-7633680.0	8353.01	1976	FORESTER FALLS	ONT	CAN	45.42	76.49	150	S	3.10	85	79.5	25cm, 10m, 27y
32.500-7634460.0		1976	CHALK RIVER, AECL	ONT	CAN	46.01	77.26	145	S	1.94	85	98.0	ST. 1865
32.500-7655070.0	8357.00	1976	SIPANOK CH.	SASK	CAN	53.40	102.47	272	B	2.33	78	75.8	
32.500-7655110.0	8361.00	1976	CHITEK LAKE	SASK	CAN	53.46	107.50	567	B	2.15	78	46.2	
32.500-7655120.0	8362.00	1976	MADGE LAKE	SASK	CAN	51.38	101.40	621	B	2.57	78	74.2	
32.500-7655140.0	8364.00	1976	PIWEI R.	SASK	CAN	52.30	102.55	509	B	2.61	78	60.0	
32.500-7655160.0	8134.02	1976	CANDLE LAKE	SASK	CAN	53.45	105.12	494	B	2.08	78	39.0	
32.500-7655170.0	8366.00	1976	DORE LAKE	SASK	CAN	54.42	107.16	485	N/A	2.08	78	39.0	
32.500-7665200.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	1.79	77	93.0	A.F.S. # 0335
32.500-7665460.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	1.65	85	35.0	A.F.S. # 0349
32.500-7665490.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	2.05	85	21.0	A.F.S. # 0352
32.500-7665510.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	1.43	85	61.5	A.F.S. # 0354
32.500-7665520.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	2.13	85	52.5	A.F.S. # 0355
32.500-7665540.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	S	2.48	85	55.0	A.F.S. # 0357
32.500-7669213.0		1976	PEACE RIVER FOREST	ALTA	CAN	57.18	114.32	549	B(24)	2.06	85	40.0	
32.500-7730440.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	S	2.08	83	100.0	
32.500-7730460.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	160	B	2.08	83	95.0	
32.500-7730470.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.25	160	S	2.58	83	88.0	
32.500-7730480.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	160	S	2.00	83	89.0	
32.500-7730490.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	160	S	2.41	83	88.0	
32.500-7730500.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	S	1.71	83	94.0	
32.500-7730510.0		1977	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	170	B	2.30	83	90.0	
32.500-7730590.0	8701.07	1977	DAVMONT TOWNSHIP	ONT	CAN	46.51	83.58	300	S	2.21	83	100.0	
32.500-7730960.0	8705.06	1977	PROCTOR TOWNSHIP	ONT	CAN	46.20	82.30	250	S	1.69	83	98.0	
32.500-7731060.0	8706.09	1977	TOWNSHIP 131	ONT	CAN	46.28	82.14	365	S	2.01	83	92.0	
32.500-7731100.0	8707.03	1977	DENISON TOWNSHIP	ONT	CAN	46.27	81.22	275	S	2.15	83	99.0	
32.500-7731120.0	8707.05	1977	DENISON TOWNSHIP	ONT	CAN	46.27	81.22	275	S	1.98	78	99.0	
32.500-7731140.0	8707.07	1977	DENISON TOWNSHIP	ONT	CAN	46.27	81.22	275	S	2.00	83	92.0	
32.500-7731150.0	8707.08	1977	DENISON TOWNSHIP	ONT	CAN	46.27	81.22	275	S	1.96	78	100.0	
32.500-7731260.0	8021.12	1977	NAIRN TOWNSHIP	ONT	CAN	46.19	81.39	215	S	2.13	83	99.0	
32.500-7731310.0	8021.17	1977	NAIRN TOWNSHIP	ONT	CAN	46.19	81.39	215	S	2.23	78	99.5	
32.500-7731600.0	8710.02	1977	DAHL TOWNSHIP	ONT	CAN	48.18	85.00	425	S	1.86	83	82.0	

SEED LIST/LISTE DES SEMENCES

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32.500-7731620.0	8710.04	1977	DAHL TOWNSHIP	ONT	CAN	48.18	85.00	425	S	2.51	83	87.0	
32.500-7820730.0	8373.03	1978	THORNE TOWNSHIP	QUE	CAN	45.48	76.28	210	S	2.28	83	99.0	
32.500-7820740.0	8373.04	1978	THORNE TOWNSHIP	QUE	CAN	45.48	76.28	210	S	2.28	83	95.0	
32.500-7820750.0	8373.05	1978	THORNE TOWNSHIP	QUE	CAN	45.48	76.28	210	S	2.98	83	98.0	
32.500-7820760.0	8373.06	1978	THORNE TOWNSHIP	QUE	CAN	45.48	76.28	210	S	2.36	83	99.0	
32.500-7820890.0	8372.01	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	B	2.28	83	100.0	23-25cm, 12-17m
32.500-7820900.0	8372.02	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.33	83	100.0	
32.500-7820910.0	8372.03	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.87	83	100.0	
32.500-7820920.0	8372.04	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.31	83	100.0	
32.500-7820930.0	8372.05	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.63	83	100.0	
32.500-7820940.0	8372.06	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.88	83	100.0	
32.500-7820950.0	8372.07	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	3.52	83	100.0	
32.500-7820960.0	8372.08	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.68	83	100.0	
32.500-7820970.0	8372.09	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	3.01	83	100.0	
32.500-7820980.0	8372.10	1978	OTTER LAKE	QUE	CAN	45.51	76.26	200	S	2.78	83	98.0	
32.500-7830810.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	2.29	83	100.0	
32.500-7830820.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.26	160	S	2.61	83	97.0	
32.500-7830830.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.25	160	S	2.60	80	98.5	ST. 2023
32.500-7830840.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.25	160	S	2.07	80	94.8	ST. 2017
32.500-7831460.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.24	160	S	2.13	80	97.0	
32.500-7831470.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.24	160	S	2.30	80	96.0	
32.500-7831570.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.24	160	S	2.67	80	95.5	ST. 1863
32.500-7831580.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.25	160	S	2.02	80	96.3	ST. 2019
32.500-7933060.0	8772.04	1979	SOUTH NATION RIVER	ONT	CAN	45.33	75.03	61	S	2.76	83	51.0	
32.500-7933080.0	8772.06	1979	SOUTH NATION RIVER	ONT	CAN	45.33	75.03	61	N/A	2.75	83	75.0	
32.500-8200564.0		1982	CORMACK	NFLD	CAN	49.20	57.19	90	B	2.88	85	88.0	
32.500-8200570.0		1982	GOOSE BAY, LABRADOR	NFLD	CAN	53.20	60.10	10	B	2.19	85	90.0	
32.500-8200571.0		1982	FRENCHMAN'S POND	NFLD	CAN	48.53	55.53	180	B	2.85	85	83.0	
32.500-8234400.0		1982	PINE GRAFT ARB, P.N.F.I.	ONT	CAN	45.57	77.28	200	S	2.13	83	97.8	50cm, 20m, 65y
32.500-8234410.0		1982	PINE GRAFT ARB, P.N.F.I.	ONT	CAN	45.57	77.28	200	S	1.89	83	92.0	50cm, 18m, 65y
32.500-8234420.0		1982	PINE GRAFT ARB, P.N.F.I.	ONT	CAN	45.57	77.28	200	S	2.05	83	98.3	45cm, 16m, 55y
32.500-8234440.0		1982	PINE GRAFT ARB, P.N.F.I.	ONT	CAN	45.57	77.28	200	S	2.78	83	93.2	52cm, 70y
32.500-8234450.0		1982	PINE GRAFT ARB, P.N.F.I.	ONT	CAN	45.57	77.28	200	S	2.36	83	97.0	35cm, 16m, 55y
32.500-8234460.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	200	S	2.30	83	99.7	18-20m, 50-70y
32.500-8234470.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	200	S	2.18	83	99.2	
32.500-8234480.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	200	S	2.33	83	99.7	
32.500-8234490.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	200	S	2.06	83	99.5	
32.500-8234500.0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.28	200	S	2.30	83	99.5	
32.500-8280560.0		1982	TETLIN JUNCTION	ALAS	USA	63.19	142.38	495	S	2.04	85	93.5	
32.500-8280561.0		1982	WILLOW ISLAND	ALAS	USA	64.41	148.12	125	S	2.06	85	63.0	
32.500-8280562.0		1982	BONANZA CREEK	ALAS	USA	64.43	148.20	275	S	2.94	85	81.0	
32.500-8280563.0		1982	GERSTLE RIVER	ALAS	USA	63.50	144.53	390	S	2.68	85	80.0	
32.500-8284650.0		1982	WASHINGTON COUNTY	ME	USA	44.45	67.15		S	3.53	83	100.0	RECD FROM K. HALE
32.500-8400991.0		1984	MICHAELS BROOK	NFLD	CAN	48.48	56.20	210	B	3.30	85	96.0	
32.500-8430101.0	21101.02	1984	MCNAB 10	ONT	CAN	45.28	76.27	129	S	1.89	85	97.5	ST. 5036
32.500-8430104.0	21101.05	1984	MCNAB 10	ONT	CAN	45.28	76.27	129	S	1.78	85	97.5	ST. 5039
32.500-8430106.0	21102.01	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	2.32	85	97.0	ST. 5109
32.500-8430107.0	21102.02	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	2.04	85	98.5	ST. 5110
32.500-8430108.0	21102.03	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.55	85	97.5	ST. 5111
32.500-8430109.0	21102.04	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.27	85	96.5	ST. 5112
32.500-8430111.0	21102.06	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.60	85	100.0	ST. 5114
32.500-8430112.0	21102.07	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.79	85	98.0	ST. 5115
32.500-8430113.0	21102.08	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.59	85	99.0	ST. 5116
32.500-8430114.0	21102.09	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.84	85	99.0	ST. 5117

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-8430115.0	21102.10	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	2.07	85	99.0	ST. 5118
32.500-8430116.0	21103.01	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	1.85	85	99.5	ST. 5119
32.500-8430117.0	21103.02	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	1.65	85	81.5	ST. 5120
32.500-8430118.0	21103.03	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	2.06	85	99.0	ST. 5121
32.500-8430119.0	21103.04	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	2.25	85	99.5	ST. 5122
32.500-8430120.0	21103.05	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	2.13	85	95.0	ST. 5123
32.500-8430121.0	21103.06	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	2.29	85	94.5	ST. 5124
32.500-8430122.0	21103.07	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	1.46	85	95.0	ST. 5125
32.500-8430123.0	21103.08	1984	HORTON 2	ONT	CAN	45.27	76.42	154	S	1.67	85	99.5	ST. 5126
32.500-8430124.0	21104.01	1984	STAFFORD 5	ONT	CAN	45.45	77.03	137	S	1.77	85	95.0	ST. 5103
32.500-8430126.0	21104.03	1984	STAFFORD 5	ONT	CAN	45.45	77.03	137	S	1.54	85	98.5	ST. 5105
32.500-8430127.0	21104.04	1984	STAFFORD 5	ONT	CAN	45.45	77.03	137	S	1.50	85	88.5	ST. 5106
32.500-8430128.0	21104.05	1984	STAFFORD 5	ONT	CAN	45.45	77.03	137	S	1.61	85	99.5	ST. 5107
32.500-8430129.0	21104.06	1984	STAFFORD 5	ONT	CAN	45.45	77.03	137	S	1.63	85	94.0	ST 5108
32.500-8430130.0	21105.01	1984	HORTON 4	ONT	CAN	45.27	76.36	144	S	2.05	85	95.0	ST. 5041
32.500-8430132.0	21106.01	1984	BROMLEY 5	ONT	CAN	45.37	76.56	152	S	2.22	85	91.5	ST. 5004
32.500-8430133.0	21106.02	1984	BROMLEY 5	ONT	CAN	45.37	76.56	152	S	2.45	85	99.0	ST. 5005
32.500-8430134.0	21106.03	1984	BROMLEY 5	ONT	CAN	45.37	76.56	152	S	1.44	85	98.0	ST. 5006
32.500-8430135.0	21107.01	1984	WILBERFORCE 15	ONT	CAN	45.33	77.04	152	S	1.99	85	98.0	ST. 5030
32.500-8430136.0	21107.02	1984	WILBERFORCE 15	ONT	CAN	45.33	77.04	152	S	1.57	85	98.0	ST 5031
32.500-8430140.0	21108.02	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	1.57	85	99.5	ST. 5023
32.500-8430141.0	21108.03	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	2.35	85	97.5	ST. 5024
32.500-8430142.0	21108.04	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	1.69	85	97.5	ST. 5025
32.500-8430144.0	21108.06	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	2.52	85	97.0	ST. 5027
32.500-8430145.0	21108.07	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	1.89	85	98.0	ST. 5028
32.500-8430146.0	21108.08	1984	WILBERFORCE 14	ONT	CAN	45.33	77.05	168	S	1.29	85	96.0	ST. 5029
32.500-8430147.0	21109.01	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	2.09	85	99.5	ST. 5053
32.500-8430149.0	21109.03	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	2.82	85	99.5	ST. 5055
32.500-8430151.0	21109.05	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	2.30	85	100.0	ST. 5057
32.500-8430152.0	21109.06	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	1.42	85	94.5	ST. 5058
32.500-8430153.0	21109.07	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	1.45	85	93.0	ST. 5059
32.500-8430154.0	21109.08	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	1.85	85	99.5	ST. 5060
32.500-8430155.0	21109.09	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	1.51	85	99.0	ST. 5061
32.500-8430156.0	21109.10	1984	ADMASTON 9	ONT	CAN	45.27	76.48	152	S	1.61	85	99.5	ST. 5062
32.500-8430157.0	21110.01	1984	WILBERFORCE 11	ONT	CAN	45.34	77.09	183	S	2.52	85	97.0	ST. 5018
32.500-8430158.0	21110.02	1984	WILBERFORCE 11	ONT	CAN	45.34	77.09	183	S	2.06	85	92.5	ST. 5019
32.500-8430159.0	21110.03	1984	WILBERFORCE 11	ONT	CAN	45.34	77.09	183	S	1.90	85	97.0	ST. 5020
32.500-8430160.0	21110.04	1984	WILBERFORCE 11	ONT	CAN	45.34	77.09	183	S	2.22	85	98.0	ST. 5021
32.500-8430161.0	21112.01	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.90	85	98.5	ST. 5073
32.500-8430162.0	21112.02	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.87	85	84.5	ST. 5074
32.500-8430163.0	21112.05	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.48	85	96.0	ST. 5077
32.500-8430166.0	21112.06	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.90	85	97.0	ST. 5078
32.500-8430167.0	21112.07	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	2.23	85	99.5	ST. 5079
32.500-8430168.0	21112.08	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	2.20	85	97.0	ST. 5080
32.500-8430169.0	21112.09	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.80	85	99.5	ST. 5081
32.500-8430170.0	21112.10	1984	SOUTH ALGONA 6	ONT	CAN	45.31	77.12	244	S	1.90	85	100.0	ST. 5082
32.500-8430171.0	21113.01	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.30	85	98.0	ST. 5083
32.500-8430172.0	21113.02	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.68	85	97.0	ST. 5084
32.500-8430173.0	21113.03	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.65	85	99.0	ST. 5085
32.500-8430174.0	21113.04	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.73	85	97.0	ST. 5086
32.500-8430175.0	21113.05	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.55	85	97.5	ST. 5087
32.500-8430176.0	21113.06	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	2.03	85	98.0	ST. 5088
32.500-8430177.0	21113.07	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.55	85	96.5	ST. 5089
32.500-8430179.0	21113.09	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.65	85	100.0	ST. 5090

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-8430180.0	21113.10	1984	SOUTH ALGONA 7	ONT	CAN	45.31	77.14	229	S	1.65	85	97.0	ST.5092
32.500-8430181.0	21127.01	1984	ROSS 16	ONT	CAN	45.37	76.53	152	S	2.40	85	96.0	ST.4965
32.500-8430183.0	21127.03	1984	ROSS 16	ONT	CAN	45.37	76.53	152	S	2.13	85	96.5	ST.4968
32.500-8430184.0	21127.04	1984	ROSS 16	ONT	CAN	45.37	76.53	152	S	1.60	85	98.5	ST.4969
32.500-8430187.0	21127.07	1984	ROSS 16	ONT	CAN	45.37	76.53	152	S	2.45	85	98.5	ST.4972
32.500-8430190.0	21117.02	1984	ROSS 17	ONT	CAN	45.37	76.49	183	S	1.53	85	95.5	ST.4975
32.500-8430191.0	21117.03	1984	ROSS 17	ONT	CAN	45.37	76.49	183	S	1.68	85	94.0	ST.4976
32.500-8430192.0	21117.04	1984	ROSS 17	ONT	CAN	45.37	76.49	183	S	1.95	85	98.5	ST.4977
32.500-8430193.0	21117.05	1984	ROSS 17	ONT	CAN	45.37	76.49	183	S	1.90	85	98.5	ST.4978
32.500-8430196.0	21117.08	1984	ROSS 17	ONT	CAN	45.37	76.49	183	S	1.65	85	100.0	ST.4981
32.500-8430197.0	21119.01	1984	ROSS 19	ONT	CAN	45.34	76.50	168	S	1.98	85	99.0	ST.4982
32.500-8430198.0	21120.01	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.80	85	100.0	ST.4983
32.500-8430199.0	21120.02	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.50	85	99.5	ST.4984
32.500-8430200.0	21120.03	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.75	85	98.5	ST.4985
32.500-8430201.0	21120.04	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.40	85	97.0	ST.4986
32.500-8430202.0	21120.05	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.55	85	99.0	ST.4988
32.500-8430205.0	21120.08	1984	ROSS 20	ONT	CAN	45.36	76.51	152	S	1.40	85	99.0	ST.4991
32.500-8430215.0	21116.10	1984	ROSS 7	ONT	CAN	45.42	76.45	152	S	1.58	85	98.0	ST.4948
32.500-8430216.0	21125.01	1984	ROSS 11	ONT	CAN	45.42	76.47	128	S	1.78	85	99.5	ST.4949
32.500-8430218.0	21125.03	1984	ROSS 11	ONT	CAN	45.42	76.47	128	S	1.75	85	98.0	ST.4951
32.500-8430220.0	21125.05	1984	ROSS 11	ONT	CAN	45.42	76.47	128	S	1.85	85	96.0	ST.4953
32.500-8430221.0	21125.06	1984	ROSS 11	ONT	CAN	45.42	76.47	128	S	1.73	85	97.5	ST.4954
32.500-8430224.0	21125.09	1984	ROSS 11	ONT	CAN	45.42	76.47	128	S	2.25	85	97.5	ST.4958
32.500-8430225.0	21126.01	1984	ROSS 13	ONT	CAN	45.41	76.51	137	S	1.55	85	96.5	ST.4960
32.500-8430226.0	21126.02	1984	ROSS 13	ONT	CAN	45.41	76.51	137	S	1.93	85	100.0	ST.4961
32.500-8430229.0	21126.05	1984	ROSS 13	ONT	CAN	45.41	76.51	137	S	1.70	85	100.0	ST.4964
32.500-8430230.0	21111.01	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.93	85	97.5	ST.5063
32.500-8430231.0	21111.02	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.55	85	97.5	ST.5064
32.500-8430232.0	21111.03	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.70	85	98.0	ST.5065
32.500-8430233.0	21111.04	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	2.20	85	98.0	ST.5066
32.500-8430234.0	21111.05	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.53	85	95.5	ST.5067
32.500-8430235.0	21111.06	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.88	85	99.0	ST.5068
32.500-8430236.0	21111.07	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.75	85	98.5	ST.5069
32.500-8430237.0	21111.08	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	1.55	85	99.5	ST.5070
32.500-8430238.0	21111.09	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	2.48	85	97.5	ST.5071
32.500-8430239.0	21111.10	1984	ALICE 1	ONT	CAN	45.48	77.15	168	S	2.89	85	83.0	ST.5072
32.500-8430246.0	21121.07	1984	HORTON 5	ONT	CAN	45.27	76.37	137	S	1.93	85	84.4	ST.5049
32.500-8430249.0	21122.01	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.95	85	99.5	ST.5093
32.500-8430250.0	21122.02	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	2.00	85	99.0	ST.5094
32.500-8430251.0	21122.03	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.55	85	98.0	ST.5095
32.500-8430252.0	21122.04	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.93	85	97.5	ST.5096
32.500-8430253.0	21122.05	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.90	85	99.5	ST.5097
32.500-8430255.0	21122.07	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.80	85	99.0	ST.5099
32.500-8430257.0	21122.09	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.73	85	66.5	ST.5101
32.500-8430258.0	21122.10	1984	MCNAB 7	ONT	CAN	45.28	76.30	114	S	1.65	85	98.0	ST.5102
32.500-8430261.0	21128.03	1984	BROMLEY 3	ONT	CAN	45.39	77.03	152	S	1.93	85	98.0	ST.4995
32.500-8430262.0	21128.04	1984	BROMLEY 3	ONT	CAN	45.39	77.03	152	S	1.58	85	100.0	ST.4996
32.500-8430269.0	21132.01	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.58	85	98.0	ST.5007
32.500-8430270.0	21132.02	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.83	85	99.0	ST.5008
32.500-8430271.0	21132.03	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.85	85	99.0	ST.5009
32.500-8430273.0	21132.05	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.80	85	100.0	ST.5011
32.500-8430274.0	21132.06	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.70	85	98.0	ST.5012
32.500-8430275.0	21132.07	1984	STAFFORD 4	ONT	CAN	45.43	77.05	145	S	1.63	85	99.5	ST.5014
32.500-8430277.0	21133.01	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	2.70	85	93.0	ST.4816

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-8430278.0	21133.02	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.80	85	98.0	ST. 4817
32.500-8430279.0	21133.03	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.80	85	95.0	ST. 4818
32.500-8430280.0	21133.04	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	2.60	85	99.5	ST. 4819
32.500-8430281.0	21133.05	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.38	85	99.0	ST. 4822 1ST COLL
32.500-8430282.0	21133.06	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.70	85	100.0	ST. 4823
32.500-8430283.0	21133.07	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.65	85	96.0	ST. 4824
32.500-8430284.0	21133.08	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.55	85	100.0	ST. 4825
32.500-8430285.0	21133.09	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.68	85	100.0	ST. 4826
32.500-8430286.0	21133.10	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.45	85	99.5	ST. 4827
32.500-8430287.0	21133.11	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	2.33	85	99.0	ST. 4828
32.500-8430288.0	21133.12	1984	PEMBROKE 2	ONT	CAN	45.49	77.04	114	S	1.43	85	95.5	ST. 4829
32.500-8430289.0	21134.01	1984	PEMBROKE 3	ONT	CAN	45.48	77.03	114	S	2.00	85	100.0	ST. 4830
32.500-8430291.0	21134.03	1984	PEMBROKE 3	ONT	CAN	45.48	77.03	114	S	1.83	85	98.5	ST. 4832
32.500-8430292.0	21134.04	1984	PEMBROKE 3	ONT	CAN	45.48	77.03	114	S	1.30	85	99.0	ST. 4833
32.500-8430303.0	21118.05	1984	PEMBROKE 4	ONT	CAN	45.47	77.04	137	S	1.80	85	98.5	ST. 4847
32.500-8430304.0	21118.06	1984	PEMBROKE 4	ONT	CAN	45.47	77.04	137	S	2.28	85	71.0	ST. 4848
32.500-8430307.0	21123.02	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.55	85	97.0	ST. 4851
32.500-8430308.0	21123.03	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	2.13	85	98.0	ST. 4852
32.500-8430309.0	21123.04	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.65	85	95.5	ST. 4853
32.500-8430310.0	21123.05	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	2.18	85	98.0	ST. 4854
32.500-8430312.0	21123.07	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.58	85	100.0	ST. 4856
32.500-8430313.0	21123.08	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	2.30	85	99.0	ST. 4857
32.500-8430314.0	21123.09	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.65	85	98.5	ST. 4858
32.500-8430316.0	21123.11	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.87	85	99.0	ST. 4860
32.500-8430317.0	21123.12	1984	WESTMEATH 4	ONT	CAN	45.53	76.54	122	S	1.83	85	99.5	ST. 4861
32.500-8430318.0	21130.01	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.65	85	98.5	ST. 4862
32.500-8430319.0	21130.02	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	2.10	85	98.5	ST. 4863
32.500-8430321.0	21130.04	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.80	85	100.0	ST. 4865
32.500-8430322.0	21130.05	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.63	85	99.5	ST. 4866
32.500-8430323.0	21130.06	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.63	85	98.0	ST. 4867
32.500-8430325.0	21130.08	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.80	85	94.5	ST. 4869
32.500-8430326.0	21130.09	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.95	85	97.5	ST. 4870
32.500-8430327.0	21130.10	1984	WESTMEATH 9	ONT	CAN	45.51	76.47	122	S	1.95	85	96.5	ST. 4871
32.500-8430328.0	21129.01	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.33	85	98.5	ST. 4872
32.500-8430330.0	21129.03	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.80	85	97.0	ST. 4874
32.500-8430331.0	21129.04	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	2.08	85	99.0	ST. 4875
32.500-8430332.0	21129.05	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	2.03	85	100.0	ST. 4876
32.500-8430334.0	21129.07	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.50	85	99.0	ST. 4878
32.500-8430335.0	21129.08	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.75	85	99.5	ST. 4879
32.500-8430337.0	21129.10	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.83	85	99.5	ST. 4881
32.500-8430339.0	21129.12	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	2.38	85	96.5	ST. 4883
32.500-8430340.0	21129.13	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	2.43	85	99.0	ST. 4884
32.500-8430341.0	21129.14	1984	WESTMEATH 10	ONT	CAN	45.52	76.47	107	S	1.78	85	98.0	ST. 4885
32.500-8430342.0	21135.01	1984	WESTMEATH 12	ONT	CAN	45.50	76.50	122	S	2.05	85	99.0	ST. 4886
32.500-8430347.0	21135.06	1984	WESTMEATH 12	ONT	CAN	45.50	76.50	122	S	2.03	85	86.5	ST. 4892
32.500-8430349.0	21131.01	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.62	85	100.0	ST. 4896
32.500-8430350.0	21131.02	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	2.05	85	98.0	ST. 4897
32.500-8430351.0	21131.03	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.45	85	98.5	ST. 4898
32.500-8430353.0	21131.05	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.65	85	97.0	ST. 4900
32.500-8430354.0	21131.06	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.40	85	98.5	ST. 4901
32.500-8430358.0	21131.10	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	2.10	85	99.0	ST. 4906
32.500-8430359.0	21131.11	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.85	85	99.0	ST. 4907
32.500-8430360.0	21131.12	1984	WESTMEATH 13	ONT	CAN	45.50	76.53	122	S	1.78	85	99.0	ST. 4908
32.500-8430361.0	21124.01	1984	WESTMEATH 14	ONT	CAN	45.52	76.52	137	S	2.08	85	99.0	ST. 4909

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-8430365.0	21124.05	1984	WESTMEATH 14	ONT	CAN	45.52	76.52	137	S	1.35	85	98.5	ST. 4915
32.500-8430366.0	21124.06	1984	WESTMEATH 14	ONT	CAN	45.52	76.52	137	S	2.08	85	98.0	ST. 4916
32.500-8430368.0	21124.08	1984	WESTMEATH 14	ONT	CAN	45.46	76.53	137	S	2.18	85	99.5	ST. 4918
32.500-8430369.0	21124.09	1984	WESTMEATH 14	ONT	CAN	45.46	76.53	137	S	1.65	85	99.0	ST. 4919
32.500-8430371.0	21124.11	1984	WESTMEATH 14	ONT	CAN	45.46	76.53	137	S	2.15	85	96.0	ST. 4921
32.500-8430373.0	21115.01	1984	WESTMEATH 20	ONT	CAN	45.44	76.59	137	S	1.63	85	98.5	ST. 4923
32.500-8430376.0	21115.04	1984	WESTMEATH 20	ONT	CAN	45.44	76.59	137	S	1.83	85	96.5	ST. 4926
32.500-8430377.0	21115.05	1984	WESTMEATH 20	ONT	CAN	45.44	76.59	137	S	1.55	85	98.0	ST. 4927
32.500-8430379.0	21115.07	1984	WESTMEATH 20	ONT	CAN	45.44	76.59	137	S	2.94	85	92.5	ST. 4929
32.500-8430383.0	21114.01	1984	WESTMEATH 21	ONT	CAN	45.44	77.00	168	S	1.85	85	95.5	ST. 4933
32.500-8430385.0	21114.03	1984	WESTMEATH 21	ONT	CAN	45.44	77.00	168	S	1.95	85	97.5	ST. 4935
32.500-8430386.0	21114.04	1984	WESTMEATH 21	ONT	CAN	45.44	77.00	168	S	1.65	85	98.5	ST. 4936
32.500-8430388.0	21114.06	1984	WESTMEATH 21	ONT	CAN	45.44	77.00	168	S	1.53	85	96.0	ST. 4938
32.500-8431427.0		1984	HEADQUARTERS RD., PNFI	ONT	CAN	46.00	77.27	150	S	1.61	85	82.0	44cm, 19m
32.500-8431428.0		1984	HEADQUARTERS RD., PNFI	ONT	CAN	46.00	77.27	150	S	1.65	85	63.9	
32.500-8431429.0		1984	HEADQUARTERS RD., PNFI	ONT	CAN	46.00	77.27	150	S	1.24	85	60.5	53cm, 17.5m
32.500-8431430.0		1984	UNIT CREEK RD., P.N.F.I.	ONT	CAN	45.58	77.25	150	S	2.17	85	94.5	55cm, 19.5m
32.500-8431431.0		1984	UNIT CREEK RD., P.N.F.I.	ONT	CAN	45.58	77.25	150	S	1.42	85	90.0	34cm, 18.5m
32.500-8431432.0		1984	UNIT CREEK RD., P.N.F.I.	ONT	CAN	45.58	77.25	150	S	1.54	85	95.5	53cm, 25m
32.500-8431433.0		1984	PINE GRAFT ARBORETUM	ONT	CAN	45.58	77.24	160	S	1.80	85	98.0	47cm, 22.5m
32.500-8431434.0		1984	PINE GRAFT ARBORETUM	ONT	CAN	45.58	77.24	160	S	1.65	85	90.0	55cm, 23.5m
32.500-8431435.0		1984	PINE GRAFT ARBORETUM	ONT	CAN	45.58	77.24	160	S	1.38	85	79.0	40cm, 17.5m
32.500-8431436.0		1984	UNIT CREEK RD., P.N.F.I.	ONT	CAN	45.58	77.25	150	S	1.74	85	83.1	52cm, 19m
(32.600) PICEA GLEHNII (Sakhalin spruce)													
32.600-6981720.0		1969	HOKKAIDO PREFECTURE		JPN	43.25	144.06E	615	B	3.34	83	25.5	
(32.720) PICEA JEZOENSIS var. MICROSPERMA													
32.720-8380664.0		1983	ICHUN, HEILUNGJIANG PROV.		CHN	47.00	129.00E	240	N/A	2.94	85	73.3	
(32.750) PICEA KORAIENSIS													
32.750-8380663.0		1983	ICHUN, HEILUNGJIANG PROV.		CHN	47.00	129.00E	240	N/A	6.21	85	88.3	
32.750-8480977.0		1984	INNER MONGOLIA		CHN	40.00	110.00E		N/A	5.87	85	80.0	
32.750-8480978.0		1984	HEILUNGKIANG PROVINCE		CHN	47.00	129.00E		N/A	6.05	85	91.0	
(32.800) PICEA KOYAMAE (Koyama spruce)													
32.800-7484360.0		1974	NAGANO PREFECTURE		JPN	35.50	138.13E	1660	S	4.65	83	57.5	39cm, 21m, 85y
(32.900) PICEA MARIANA (black spruce)													
32.900-5210560.0		1952	GEARY	NB	CAN	45.42	66.31	20	B	1.31	83	79.9	
32.900-5210590.0		1952	FARMINGTON	PEI	CAN	46.23	62.29	20	B	1.28	83	55.0	
32.900-5310520.0		1953	PRINCE WILLIAM STATION	NB	CAN	45.45	67.05	150	B	1.62	83	33.5	
32.900-5310540.0	7073.00	1953	ACADIA FOR. EXP. STA.	NB	CAN	45.59	66.14	45	N/A	1.39	83	56.5	
32.900-5310550.0		1953	CHIGNECTO GAME SANCTUARY	NS	CAN	45.30	64.28	45	B	1.55	83	62.5	
32.900-5910520.0		1959	BIG HOLE BROOK	NB	CAN	46.35	66.15	120	B	1.67	83	34.5	
32.900-6030270.0		1960	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.29	200	N/A	.95	83	61.0	
32.900-6430210.0	7095.00	1964	ONTARIO SITE REGION 4E	ONT	CAN	47.00	80.00		B	1.06	83	100.0	LARGE ZONE
32.900-6430230.0		1964	ONTARIO SITE REGION 3W	ONT	CAN	50.00	90.00		B	.97	83	99.5	LARGE ZONE
32.900-6430240.0		1964	ONTARIO SITE REGION 4W	ONT	CAN	49.00	90.00		B	1.04	83	96.0	LARGE ZONE

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.900-6430250.0		1964	ONTARIO SITE REGION 5S	ONT	CAN	50.00	94.00		B	.99	83	99.5	LARGE ZONE
32.900-6430260.0		1964	ONTARIO SITE REGION 4S	ONT	CAN	45.50	77.30		B	1.07	83	98.5	LARGE ZONE
32.900-6480270.0	7105.00	1964	ITASCA COUNTY	MINN	USA	47.22	93.35	410	B(15)	1.25	83	73.0	
32.900-6561040.0		1965	WHITECOURT	ALTA	CAN	53.45	115.43	760	B	1.32	84	55.0	
32.900-6732320.0		1967	RANGER LAKE	ONT	CAN	46.46	83.26	365	B	.97	83	80.0	
32.900-6751610.0	7107.00	1967	PORCUPINE MOUNTAIN	SASK	CAN	52.30	101.43	600	B	1.04	83	64.5	
32.900-7061100.0		1970	FAWCETT LAKE	ALTA	CAN	55.20	113.55	640	B	1.35	83	82.0	12-15m, 50-60y
32.900-7126250.0		1971	NORTH OF BAIE COMEAU	QUE	CAN	50.20	68.40	250	B	1.17	85	99.0	
32.900-7904710.0		1979	SWIFT CURRENT	NFLD	CAN	47.56	54.21	120	B	1.42	85	98.5	
32.900-7904720.0		1979	VICTORIA RIVER	NFLD	CAN	48.34	56.48	300	B	1.34	85	95.0	
32.900-8002040.0		1980	SKIPPINS RIDGE	NFLD	CAN	49.45	56.19	150	B	1.54	85	88.0	
32.900-8002050.0		1980	CARMANVILLE	NFLD	CAN	49.21	54.16	70	B	1.46	85	92.5	
32.900-8002060.0		1980	INDIAN BAY	NFLD	CAN	49.04	53.54	60	B	1.42	85	85.5	
32.900-8002070.0		1980	MINT BROOK	NFLD	CAN	48.42	54.37	120	B	1.37	85	89.0	
32.900-8120144.0		1981	NORTHEAST OF CHIBOUGAMAU	QUE	CAN	50.10	73.55	375	B	1.14	85	88.0	
32.900-8120145.0		1981	NORTH OF CHICOUTIMI	QUE	CAN	49.50	71.15	400	B	1.24	85	94.0	
32.900-8200554.0		1982	GOOSE BAY, LABRADOR	NFLD	CAN	53.17	60.25	10	B	1.32	85	96.5	
32.900-8200565.0		1982	CORMACK	NFLD	CAN	49.22	57.18	90	B	1.59	85	96.5	
32.900-8200566.0		1982	EASTERN CHAIN LAKES	NFLD	CAN	49.22	56.24	180	B	1.40	85	93.0	
32.900-8200567.0		1982	HEAD POND	NFLD	CAN	48.53	55.50	120	B	1.53	85	95.0	
32.900-8200568.0		1982	BAIE VERTE JUNCTION	NFLD	CAN	49.27	56.25	150	B	1.54	85	90.1	
32.900-8200569.0		1982	BURNT BERRY	NFLD	CAN	49.28	56.13	60	B	1.61	85	96.0	
32.900-8283280.0		1982	HEARST	ONT	CAN	49.41	83.40		N/A	.94	84	98.0	OLD & NEW CONES
32.900-8310644.0		1983	AUBURN	PEI	CAN	46.17	62.55	30	B(20)	1.41	84	95.5	10-15cm, 6-10m, 42y
32.900-8310645.0		1983	CARDROSS	PEI	CAN	46.16	62.38	45	B(50)	1.40	84	95.5	15-20cm, 12-15m, 65y
32.900-8310646.0		1983	HARMONY ROAD	PEI	CAN	46.32	62.01	30	B(50)	1.60	85	98.0	10-15cm, 5-8m, 17y
32.900-8360681.0		1983	LOON LAKE	ALTA	CAN	56.35	115.20	579	N/A	1.24	85	94.5	
32.900-8360682.0		1983	LESSER SLAVE LAKE	ALTA	CAN	54.55	115.45	914	N/A	1.24	85	95.5	
32.900-8431459.0		1984	McQUIBBEN TOWNSHIP	ONT	CAN	49.29	80.30		B(6)	.88	85	97.5	15cm, 15m, 150y
32.900-8470097.0		1984	TSOO CREEK	BC	CAN	59.10	123.20	350	N/A	1.29	85	98.0	
(33.350) PICEA PUNGENS var. GLAUCA (Colorado blue spruce)													
33.350-8285450.0		1982	CLEAR CREEK, SANTA FE	NM	USA	35.30	106.00		N/A	4.46	84	67.0	SUPERIOR XMAS TREE
(33.400) PICEA RUBENS (red spruce)													
33.400-5210520.0		1952	SCOTTS BAY	NS	CAN	45.18	64.24		B	2.83	84	27.0	
33.400-5310500.0		1953	UPPER BLACKVILLE	NB	CAN	46.39	65.51	30	B	2.32	84	74.0	
33.400-5310510.0		1953	BOYNE ROAD	NB	CAN	45.33	66.31		B	2.43	83	95.5	
33.400-5620010.0		1956	LAKE EDWARD	QUE	CAN	46.45	72.55	300	B	2.53	83	85.0	
33.400-5620520.0		1956	LAKE EDWARD	QUE	CAN	46.45	72.55	300	B	2.45	83	90.0	
33.400-5620580.0		1956	VALCARTIER FOR EXP STA	QUE	CAN	46.57	71.32	215	N/A	2.41	84	72.5	
33.400-5910500.0		1959	RENOUS-PLASTER ROCK HWY.	NB	CAN	46.45	66.00		B	2.98	83	49.0	
33.400-6010200.0		1960	TIMBER LAKE	NS	CAN	44.42	64.10	90	B	3.26	83	71.5	
33.400-6110200.0		1961	PROSSER BROOK	NB	CAN	45.45	65.00		B	3.68	83	40.6	
33.400-6210210.0		1962	ACADIA FOR. EXP. STA.	NB	CAN	46.00	66.25		N/A	2.40	83	52.8	
33.400-6210220.0		1962	ACADIA FOR. EXP. STA.	NB	CAN	46.02	66.14		N/A	1.74	83	35.9	
33.400-6230240.0	3872.00	1962	HUDSON PLACE, P.F.E.S.	ONT	CAN	46.00	77.25	150	N/A	3.65	84	100.0	
33.400-6380260.0		1963	ESSEX & CLINTON COUNTY	NY	USA	44.30	73.30		B	4.00	83	56.1	
33.400-8284660.0		1982	PITTSTON FARM	ME	USA	45.45	69.45		N/A	3.08	83	53.0	RECD FROM K HALE
33.400-8430954.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	3.31	85	96.0	
33.400-8430955.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	3.12	85	98.0	21-23m, 75-139y
33.400-8430956.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.87	85	87.0	46cm, 21m, 106y

SEED LIST/LISTE DES SEMENCES

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33.400-8430957.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	3.79	85	81.5	46cm, 19m
33.400-8430958.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	1.98	85	95.5	POSSIBLE HYBRID
33.400-8430959.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.29	85	97.5	POSSIBLE HYBRID
33.400-8430960.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.43	85	99.0	43cm, 19m
33.400-8430961.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.45	85	98.5	40cm, 17m, 116y
33.400-8430962.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	B(5)	3.02	85	85.5	36cm, 20m, 112-125y
33.400-8430963.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	B(5)	2.48	85	96.4	56cm, 21m, 210y
(33.450) PICEA SCHRENKIANA (Schrenk's spruce)													
33.450-8380669.0		1983	CHANG-CHI HUI, SINKIANG		CHN	44.00	89.00E	1000	N/A	7.62	85	70.3	
33.450-8480979.0		1984	SINKIANG-UIGHUR PROVINCE		CHN	44.00	89.00E	1000	N/A	7.56	85	76.6	
(33.500) PICEA SITCHENSIS (sitka spruce)													
33.500-6680040.0		1966	PACIFIC COUNTY	WASH	USA	47.00	124.00		B	2.61	83	68.5	
33.500-6881030.0		1968	HOQUIAM	WASH	USA	47.05	124.03	6	S	2.28	85	47.0	61cm, 21m
33.500-6881140.0		1968	BROOKINGS	OR	USA	42.15	124.23	90	S	2.71	83	57.5	46cm, 15m
33.500-7073080.0		1970	WEDENE RIVER	BC	CAN	54.08	128.37	170	B	2.32	83	92.5	39-51m, 150-250y+
33.500-7073860.0		1970	USK FERRY	BC	CAN	54.38	128.24	140	B(21)	2.42	78	84.0	22-50m, 80-150y
33.500-7073870.0		1970	INVERNESS	BC	CAN	54.12	130.15	30	B(20)	2.48	78	84.5	24-43m, 60-250y
33.500-7073880.0		1970	LINK ROAD	BC	CAN	53.30	132.10	90	B	2.40	83	84.9	37-58m, 200y+
33.500-7073890.0		1970	SALMON BAY	BC	CAN	50.23	125.57		B	2.34	78	93.5	14-33m, 60-120y
33.500-7073900.0		1970	BIG QUALICUM RIVER	BC	CAN	49.23	124.37		B	2.44	83	96.5	19-39m, 40-80y
33.500-7073960.0		1970	KITWANGA	BC	CAN	55.10	127.52	670	B(16)	1.99	83	80.0	22-31m, 80-120y
33.500-7073970.0		1970	NOEICK, CHUCKWALLA RIVERS	BC	CAN	51.56	126.50	400	B(17)	2.15	83	41.0	27-91m, 80-400y
33.500-7073990.0		1970	DERRICK LAKE	BC	CAN	55.41	128.41	240	B(20)	1.69	83	85.5	29-46m, 150-200y
33.500-7074000.0		1970	CRANBERRY RIVER	BC	CAN	55.28	128.14	520	B(16)	1.75	83	92.0	19-41m, 100-200y
33.500-7074010.0		1970	FULMAR CREEK	BC	CAN	55.09	128.58	400	B(16)	2.29	83	94.0	37-46m, 150y
33.500-7074020.0		1970	CEDARVALE	BC	CAN	55.01	128.19	240	B(16)	2.22	83	93.0	18-37m, 100-200y
33.500-7074030.0		1970	PACIFIC	BC	CAN	54.46	128.15	110	S	2.13	83	77.2	64cm, 46m, 150y
33.500-7083840.0		1970	DUCK CREEK	ALAS	USA	58.22	134.35	30	B(20)	2.65	83	54.3	24-37m, 100y
33.500-7083850.0		1970	WARD LAKE	ALAS	USA	55.25	131.42	15	B	2.56	84	21.5	18-64m, 50-250y
33.500-7272010.0		1972	QUEEN CHARLOTTE ISLAND	BC	CAN	54.04	131.50	150	B	2.88	85	51.2	
33.500-7272250.0		1972	SOOKE #2 VANCOUVER IS.	BC	CAN	48.22	123.44	10	B	2.10	83	94.0	
33.500-7287290.0		1972	VALDEZ	ALAS	USA	61.07	146.16	90	B(5)	1.70	83	37.2	76-107cm, 30-46m
33.500-7575380.0		1975	PARKSVILLE	BC	CAN	49.10	124.30	75	B	2.57	83	72.5	
33.500-8370632.0		1983	KUMDIS CREEK	BC	CAN	53.42	132.09	10	B(3)	2.29	84	95.0	30-50m, 100y
(33.700) PICEA WILSONII													
33.700-8380674.0		1983	A-PA-TIBETAN, SZECHUAN P.		CHN	32.00	102.00E	3000	N/A	4.25	85	65.5	
33.700-8480980.0		1984	INNER MONGOLIA		CHN	40.00	111.00E		N/A	4.27	85	63.0	
(34.200) PINUS BANKSIANA (jack pine)													
34.200-5130010.0	1814.00	1951	BARRY'S BAY	ONT	CAN	45.29	77.41		B	3.70	83	31.0	
34.200-5130020.0	1566.51	1951	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	B	3.71	83	46.0	
34.200-5830260.0		1958	LAKE TRAVERSE, ALGON. PK	ONT	CAN	45.57	78.03		N/A	3.90	83	95.0	
34.200-6631610.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.23	160	B(3)	3.78	84	91.5	
34.200-6730610.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.55	77.35	170	B	3.26	84	75.5	
34.200-6730940.0		1967	DEEP RIVER	ONT	CAN	46.06	77.30		S	3.88	84	77.0	
34.200-6730950.0		1967	DEEP RIVER	ONT	CAN	46.06	77.30		S	3.15	84	64.0	
34.200-6730960.0		1967	DEEP RIVER	ONT	CAN	46.06	77.30		S	3.00	82	88.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
34.200-6730980.0		1967	DEEP RIVER	ONT	CAN	46.06	77.30		S	2.64	84	72.0	
34.200-6730990.0		1967	DEEP RIVER	ONT	CAN	46.06	77.30		S	2.70	83	77.0	
34.200-6731770.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.24	170	B	3.30	84	74.5	
34.200-6830070.0		1968	SIOUX LOOKOUT	ONT	CAN	50.09	91.48	380	B	3.24	84	92.0	15-18m, 70-90y
34.200-6830070.1		1968	SIOUX LOOKOUT	ONT	CAN	50.09	91.48	380	B	3.33	84	63.5	15-18m, 70-90y
34.200-6830080.0		1968	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.18	145	B400	3.25	82	95.5	17-21m, 50-60y
34.200-6830080.1		1968	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.18	145	B400	3.25	82	93.4	17-21m, 50-60y
34.200-6830090.0		1968	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.18	145	B400	3.40	83	96.0	17-21m, 50-60y
34.200-6830090.1		1968	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.18	145	B400	3.20	83	84.0	17-21m, 50-60y
34.200-6951610.0		1969	CANDLE LAKE	SASK	CAN	53.50	105.00	490	B	3.28	84	95.5	
34.200-6951740.0		1969	EMMA LAKE	SASK	CAN	53.55	105.50	490	B	3.11	84	71.5	
34.200-7010380.0		1970	GRAND LAKE	NB	CAN	45.57	66.04	30	B(15)	3.52	85	95.0	10-20cm
34.200-7010500.0		1970	SHINNICKBURN	NB	CAN	46.30	66.00	90	B(20)	3.50	85	92.0	11-12m, 40-50y
34.200-7010500.1		1970	SHINNICKBURN	NB	CAN	46.30	66.00	90	B(2)	3.52	75	75.5	11-12m, 40-50y
34.200-7020460.0		1970	CHURCH TOWNSHIP	QUE	CAN	46.16	76.13	240	S	3.60	85	92.5	25cm, 10m, 45y
34.200-7020470.0		1970	RIVIERE MANICOUAGAN	QUE	CAN	50.10	68.35	335	B(20)	3.18	85	94.0	13cm, 11m, 54y
34.200-7030320.0		1970	EVELYN TOWNSHIP	ONT	CAN	48.40	81.00	300	B(33)	3.53	85	84.0	FIRST KILN
34.200-7030320.1		1970	EVELYN TOWNSHIP	ONT	CAN	48.40	81.00	300	B(33)	3.65	75	86.0	SECOND KILN
34.200-7030330.0		1970	GREENLAW TOWNSHIP	ONT	CAN	47.40	82.47	410	B(5)	3.28	85	87.9	15-18m, 80-90y
34.200-7030330.1		1970	GREENLAW TOWNSHIP	ONT	CAN	47.40	82.47	410	B(5)	3.32	84	43.0	15-18m, 80-90y
34.200-7030340.0		1970	BAIN TOWNSHIP	ONT	CAN	49.52	86.24	320	B	3.36	84	92.5	FIRST KILN
34.200-7030350.0		1970	NIPIGON	ONT	CAN	49.11	88.12	275	S	3.30	84	90.0	10m, 30y
34.200-7030370.0		1970	CLEARWATER BAY	ONT	CAN	49.44	94.49	400	B(3)	2.94	84	92.0	7-11m, 65-96y
34.200-7030430.0		1970	QUETICO PROV. PARK	ONT	CAN	48.39	92.14	400	B(20)	3.25	84	96.5	20-28cm, 21-23m, 78y
34.200-7030430.1		1970	QUETICO PROV. PARK	ONT	CAN	48.39	92.14	400	B(20)	3.17	84	86.5	SECOND KILN
34.200-7030450.0		1970	GIBI LAKE	ONT	CAN	49.38	94.12	370	B(5)	3.03	84	97.5	19-24m, 91-103y
34.200-7030450.1		1970	GIBI LAKE	ONT	CAN	49.38	94.12	370	B(5)	3.01	84	89.5	SECOND KILN
34.200-7040360.0		1970	LAKE ST MARTIN	MAN	CAN	51.30	98.20	335	B(7)	3.41	84	89.0	20-21m, 65-80y
34.200-7040360.1		1970	LAKE ST MARTIN	MAN	CAN	51.30	98.20	335	B(7)	3.26	84	73.0	SECOND KILN
34.200-7040410.0		1970	FLIN FLON	MAN	CAN	54.40	101.47	550	B(2)	3.91	84	96.0	15-19m, 49-72y
34.200-7050390.0		1970	LAC LA RONGE	SASK	CAN	55.12	105.18	370	B(5)	2.94	84	71.5	19-22m, 81-85y
34.200-7050390.1		1970	LAC LA RONGE	SASK	CAN	55.12	105.18	370	B(5)	2.93	85	87.0	SECOND KILN
34.200-7050400.0		1970	BIG RIVER	SASK	CAN	53.44	107.12	490	B(7)	4.02	84	90.5	10-12m, 47-50y
34.200-7050400.1		1970	BIG RIVER	SASK	CAN	53.44	107.12	490	B(7)	4.16	84	69.0	SECOND KILN
34.200-7130320.0		1971	NIMITZ TWP., CHAPLEAU	ONT	CAN	47.40	83.10	460	B	3.16	79	61.5	
34.200-7130330.0		1971	C.F.B. PETAWAWA	ONT	CAN	45.59	77.21	145	B150	3.50	84	88.5	15-30cm, 15-18m
34.200-7257430.0		1972	MONTREAL LAKE	SASK	CAN	54.16	105.37	560	N/A	3.31	84	55.0	
34.200-7257450.0		1972	CANDLE LAKE	SASK	CAN	53.45	105.15		N/A	3.32	84	24.0	
34.200-7257460.0		1972	CHRISTOPHER LAKE	SASK	CAN	53.34	105.40		N/A	3.86	84	56.0	
34.200-7330060.0		1973	C.F.B. PETAWAWA	ONT	CAN	45.57	77.22	150	B	3.50	83	97.0	FIRST KILN
34.200-7330060.1		1973	C.F.B. PETAWAWA	ONT	CAN	45.57	77.22	150	B	3.27	84	85.0	SECOND KILN
34.200-7331420.0		1973	WELLS TOWNSHIP	ONT	CAN	46.26	83.23	220	B(25)	3.09	84	96.5	15-21m, 60+y
34.200-7333410.0		1973	AUDREY LAKE	ONT	CAN	49.45	94.10	460	B120	3.02	84	96.5	20-41cm
34.200-7333680.0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.22	150	S	3.60	84	96.0	
34.200-7333710.0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.22	150	S	3.08	84	86.0	
34.200-7333730.0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.22	150	S	3.43	84	91.0	
34.200-7350080.0		1973	LA LOCHE	SASK	CAN	56.22	109.12	520	B(6)	3.39	79	67.5	
34.200-7350090.0		1973	MEADOW LAKE	SASK	CAN	53.54	108.27	725	B	3.30	84	85.5	
34.200-7350100.0		1973	MONTREAL LAKE	SASK	CAN	54.16	105.37	560	B(7)	3.36	84	86.0	
34.200-7350110.0		1973	SOUTHEND	SASK	CAN	56.16	103.20	440	B(8)	2.87	84	82.0	
34.200-7350120.0		1973	PRINCE ALBERT	SASK	CAN	53.14	105.47	560	B(8)	3.88	84	82.0	
34.200-7350130.0		1973	HUDSON BAY	SASK	CAN	52.50	102.21	410	B(5)	3.95	84	84.5	
34.200-7350140.0		1973	LA RONGE	SASK	CAN	55.27	104.52	415	B(7)	2.81	84	50.5	
34.200-7435330.0		1974	SWASTIKA	ONT	CAN	47.30	80.00		N/A	3.40	83	99.0	

SEED LIST/LISTE DES SEMENCES

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34.200-7530200.0		1975	C.F.B. PETAWAWA	ONT	CAN	45.55	77.29	160	N/A	3.50	83	79.0	
34.200-7630000.0		1976	BRUCE PENINSULA	ONT	CAN	45.11	80.32	200	N/A	3.00	84	99.0	
34.200-7827550.0		1978	POINTE A DAVID	QUE	CAN	46.45	75.55	244	N/A	4.70	84	96.5	
34.200-7836330.0		1978	HAWK LAKE	ONT	CAN	49.45	93.57	460	B	3.08	79	95.8	14-18m, 75-100y
34.200-7836340.0		1978	WELLS TOWNSHIP	ONT	CAN	46.25	83.21	230	B	3.29	79	95.3	
34.200-7836350.0	9179.00	1978	GARIBALDI TWP. S.P.A.	ONT	CAN	47.14	81.14	380	B	3.17	79	96.8	
34.200-7931650.0		1979	C.F.B. PETAWAWA	ONT	CAN	45.57	77.22	160	B	3.50	79	79.8	
34.200-8021950.0		1980	BRIAND	QUE	CAN	46.54	76.02		S	3.90	84	92.5	15cm, 14m, 40y
34.200-8121300.0		1981	JOLIETTE COUNTY	QUE	CAN	47.25	75.20	365	S	3.56	84	87.5	18cm, 16m, 45y
34.200-8130900.0		1981	C.F.B. PETAWAWA	ONT	CAN	45.59	75.23	150	B	3.70	82	99.0	
34.200-8330001.0		1983	RENFREW COUNTY	ONT	CAN	46.00	77.25	150	N/A	3.41	83	97.0	J83-02
34.200-8431460.0		1984	SE OF LONG LAKE	ONT	CAN	44.47	79.28	229	B(5)	2.85	85	98.0	
(34.280) PINUS CARIBAEA var. CARIBAEA													
34.280-7886740.0		1978	MARBAJITAS PINAR DEL RIO		CUB	22.00	84.00		B	14.40	83	45.0	
34.280-8180140.0		1981	BAHIA HONDA		CUB	20.49	82.58	75	B(25)	15.48	84	74.5	25cm, 15m, 19y
(34.290) PINUS CARIBAEA var. HONDURENSIS													
34.290-8380660.0		1983	POPTUN		GTM	16.21	89.25	500	B150	18.22	84	77.0	
(34.410) PINUS CONTORTA var. CONTORTA (shore pine)													
34.410-7073220.0		1970	RICHMOND	BC	CAN	49.10	123.10	35	B	2.67	84	93.0	
34.410-7272070.0		1972	TERRACE	BC	CAN	54.52	128.47	150	B	2.49	85	68.5	NO KILN
34.410-7272070.1		1972	TERRACE	BC	CAN	54.52	128.47	150	B	2.37	84	70.5	KILN
(34.430) PINUS CONTORTA var. LATIFOLIA (lodgepole pine)													
34.430-5850250.0		1958	CYPRESS HILLS PROV. PARK	SASK	CAN	49.40	109.30	1220	B	5.89	83	28.0	
34.430-5960610.0		1959	ALLISON CREEK	BC	CAN	49.30	120.30		N/A	3.56	83	74.0	CROW NEST'S PASS
34.430-6881120.0		1968	PRAIRIE CITY	OR	USA	44.32	118.34	1500	S	4.50	83	97.0	30cm, 15m
34.430-7060480.0		1970	HINTON	ALTA	CAN	53.14	117.26	1480	B	3.48	85	90.0	20-38cm, 12-18m
34.430-7060490.0		1970	KANANASKIS RES. FOREST	ALTA	CAN	51.00	115.00	1370	B	4.43	85	75.2	FIRST KILN
34.430-7060490.1		1970	KANANASKIS RES. FOREST	ALTA	CAN	51.00	115.00	1370	B	4.37	85	92.0	SECOND KILN
34.430-7160350.0		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	B(5)	3.39	83	89.0	25-29m, 123-145y
34.430-7160350.1		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	B(5)	3.30	85	88.0	SECOND KILN
34.430-7160360.0		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	N/A	3.37	85	85.0	FIRST KILN
34.430-7160360.1		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	N/A	3.41	85	86.0	SECOND KILN
34.430-7160370.0		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	N/A	2.80	85	96.0	FIRST KILN
34.430-7160380.0		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	N/A	3.73	85	95.5	FIRST KILN
34.430-7160390.0		1971	SWAN HILLS	ALTA	CAN	54.34	115.29	950	N/A	5.08	85	96.5	FIRST KILN
34.430-7172000.0		1971	FORT ST. JAMES	BC	CAN	54.30	124.15	840	B	2.79	85	69.0	
34.430-7172010.0		1971	JACOBIE CREEK	BC	CAN	52.32	121.53	990	B	3.16	85	56.2	
34.430-7172020.0		1971	LAC LE JEUNE	BC	CAN	50.30	120.36	1300	B	3.87	85	46.5	
34.430-7172030.0		1971	HAZELTON	BC	CAN	55.15	127.30	530	B	2.74	85	71.5	
34.430-7172130.0		1971	CLEARWATER	BC	CAN	51.40	119.56	530	B	3.48	85	80.0	
34.430-7172140.0		1971	HUDSON HOPE	BC	CAN	56.03	121.52	530	B	3.12	85	94.0	
34.430-7186150.0		1971	LA VETA	COLO	USA	37.35	105.13	3000	B(20)	5.20	83	86.0	10-40cm, 10-25y
34.430-7267340.0		1972	NORDEGG	ALTA	CAN	52.30	116.15	1375	B	3.90	85	44.5	
34.430-7272040.0		1972	HAZELTON	BC	CAN	55.10	127.47	370	B	2.70	85	69.5	FIRST KILN
34.430-7272050.0		1972	MANSON CREEK	BC	CAN	55.40	124.30	730	B	2.58	85	86.8	FIRST KILN
34.430-7272060.0		1972	JACOBIE CREEK	BC	CAN	52.32	121.50	910	B	3.05	85	85.0	FIRST KILN

SEED LIST/LISTE DES SEMENCES

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34.430-7272280.0		1972	MILE 101 ALASKA HIGHWAY	BC	CAN	56.45	121.44	880	B	3.27	76	80.5	
34.430-7272290.0		1972	ATLIN	BC	CAN	59.35	133.40	750	B	2.72	85	87.0	
34.430-7272300.0		1972	TAGISH LAKE	YT	CAN	60.14	134.24	780	B	2.76	85	66.5	
34.430-7477340.0		1974	FALKLAND	BC	CAN	50.31	119.40	1300	B	2.67	85	79.0	
34.430-7477350.0		1974	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.81	85	74.0	
34.430-7575390.0		1975	PINETAN	BC	CAN	50.43	119.57	1100	B	3.72	85	57.0	
34.430-7575410.0		1975	WATSON LAKE	YT	CAN	60.10	128.50	725	B	2.90	85	83.0	
34.430-7665180.0		1976	GRANDE PRAIRIE FOREST	ALTA	CAN	55.10	118.48		B	3.46	83	95.0	FIRST KILN
34.430-7665180.1		1976	GRANDE PRAIRIE FOREST	ALTA	CAN	55.10	118.48		B	3.60	83	91.0	SECOND KILN
34.430-7678420.0		1976	MOBERLY LAKE	BC	CAN	55.40	121.25	750	B	3.00	85	87.0	
34.430-7678430.0		1976	FRASER LAKE	BC	CAN	54.12	124.26	850	B	2.90	85	86.9	
34.430-7678440.0		1976	BABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.60	85	76.2	
34.430-7678450.0		1976	BABINE	BC	CAN	55.00	126.35	820	B	3.20	78	96.0	
34.430-7678460.0		1976	WONOWON	BC	CAN	56.43	121.50	950	B	3.30	78	95.5	
34.430-7678470.0		1976	BALDY HUGHES	BC	CAN	53.40	122.57	820	B	2.90	78	93.5	
34.430-7678480.0		1976	PEMENT LAKE	BC	CAN	50.40	119.29	1100	B	3.00	78	78.5	
34.430-7779223.0		1977	NORTH RANCHERIA	YT	CAN	60.06	129.35	1008	B	2.70	83	100.0	
34.430-7779227.0		1977	TAGISH LAKE	YT	CAN	60.14	134.24	777	B	2.70	78	77.2	
34.430-7779228.0		1977	CHETWYND	BC	CAN	55.37	121.40	850	B	3.20	78	85.8	
34.430-7779229.0		1977	WONOWON	BC	CAN	56.45	121.44	884	B	3.30	79	96.5	
34.430-7779230.0		1977	VALEMOUNT	BC	CAN	52.50	119.13	850	B	3.10	78	96.0	
34.430-7779231.0		1977	TELKWA	BC	CAN	54.37	127.03	780	B	3.10	78	97.0	
34.430-7779232.0		1977	WONOWON	BC	CAN	56.43	121.50	950	B	3.30	78	94.2	
34.430-7779233.0		1977	CANOL ROAD	YT	CAN	61.08	132.50	900	B	3.30	83	69.0	
34.430-7779234.0		1977	TESLIN	YT	CAN	60.18	132.45	700	B	3.10	78	89.8	
34.430-7779235.0		1977	CASSIAR	BC	CAN	56.02	129.00	780	B	3.40	78	95.5	
34.430-7779236.0		1977	BALDY HUGHES	BC	CAN	53.40	122.57	820	B	2.90	78	89.5	
34.430-7779237.0		1977	WILLISTON	BC	CAN	56.00	122.10	815	B	3.10	78	90.0	
34.430-7779238.0		1977	SQUANGA	YT	CAN	60.30	133.45	853	B	3.00	78	70.0	
34.430-7779239.0		1977	QUIET LAKE	YT	CAN	60.55	133.00	900	B	2.90	78	74.5	
34.430-7779240.0		1977	CARMACKS	YT	CAN	62.08	135.15	620	B	2.80	78	84.5	
34.430-7779241.0		1977	SIMPSON LAKE	YT	CAN	60.45	129.10	760	B	3.10	78	82.0	
34.430-7779242.0		1977	TAGISH	YT	CAN	60.20	134.30	850	B	3.10	78	82.7	
34.430-7779243.0		1977	SINKUT MOUNTAIN	BC	CAN	53.50	123.48	910	B	2.90	78	93.2	
34.430-7779244.0		1977	NATION RIVER	BC	CAN	55.15	124.10	950	B	2.80	78	83.8	
34.430-7779245.0		1977	FORT ST. JAMES	BC	CAN	54.30	124.10	900	B	2.90	83	85.0	
34.430-7779246.0		1977	PRINCE GEORGE	BC	CAN	54.08	122.15	775	B	3.00	78	93.8	
34.430-7779247.0		1977	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	3.10	78	83.0	
34.430-7779248.0		1977	TESLIN	YT	CAN	60.15	132.50	750	B	3.00	83	81.0	
34.430-7779249.0		1977	MACKENZIE	BC	CAN	55.20	123.05	775	B	2.80	78	68.8	
34.430-7779250.0		1977	BABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.52	83	92.0	
34.430-7779251.0		1977	MOBERLY LAKE	BC	CAN	55.40	121.25	750	B	3.20	83	88.0	
34.430-7779254.0		1977	PINK MOUNTAIN	BC	CAN	57.00	122.40	1050	B	3.30	79	88.3	
34.430-7877130.0		1978	LONG LAKE	YT	CAN	60.49	135.06	701	B	3.10	79	94.0	
34.430-7877150.0		1978	SQUANGA	YT	CAN	60.30	133.45	853	B	2.80	83	76.0	
34.430-7877160.0		1978	TAGISH	YT	CAN	60.20	134.30	850	B	3.10	83	77.0	
34.430-7877170.0		1978	CARMACKS	YT	CAN	62.08	135.15	620	B	3.00	79	89.8	
34.430-7877180.0		1978	BOYA LAKE	BC	CAN	59.30	129.00	780	B	3.10	79	96.2	
34.430-7877190.0		1978	TESLIN	YT	CAN	60.18	132.45	700	B	3.00	83	77.0	
34.430-7974030.0		1979	ANNIE LAKE	YT	CAN	60.25	134.50	800	B	3.00	79	89.5	
(34.440) PINUS CONTORTA var. MURRAYANA													
34.440-6881130.0		1968	CAMP NELSON	CAL	USA	36.06	118.32	2160	S	5.90	83	47.0	91cm,30m

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(34.500) PINUS DENSIFLORA (Japanese red pine)													
34.500-7383200.0		1973	IWATE PREFECTURE		JPN	39.40	141.10E	205	B	11.20	84	80.0	8-12cm, 3-4m, 16y
(34.659) PINUS KESIYA													
34.659-7980470.0		1979	MAE SAIR		THA	19.00	98.45E	1050	N/A	20.22	84	93.5	
(34.700) PINUS KORAIENSIS (Korean pine)													
34.700-8081920.0		1980	DAILING, HEILUNGJIANG		CHN	47.00	127.00E	800	N/A	464.00	84	25.0	
(34.900) PINUS MONTICOLA [western white (silver) pine]													
34.900-7071810.0		1970	ADAMS LAKE	BC	CAN	51.25	119.30	550	B	11.66	83	52.0	
34.900-7679212.0		1976	WEST ADAMS	BC	CAN	50.53	119.46	686	N/A	17.11	84	56.0	
34.900-8370630.0		1983	ADAMS LAKE	BC	CAN	51.30	119.33	1050	N/A	14.10	84	22.0	
(35.235) PINUS NIGRA var. KOEKELARE													
35.235-8181290.0		1981	HALLE #504H SEED ORCHARD		BEL	50.44	4.14E		N/A	19.28	84	68.0	VIA DR. NANSON
(35.260) PINUS OOCARPA													
35.260-7789211.0		1977	TEMASCALTEPEC-TEJUPILCO		MEX	18.57	100.05	1675	B	24.20	83	88.0	
35.260-7789212.0		1977	TLAPACOYAN VER.		MEX	17.03	99.58	1250	B	21.60	83	90.0	
35.260-8280546.0		1982	QUINOPE		HND	13.58	87.01	1400	B200	16.91	84	94.0	25-50cm, 15-30m
(35.600) PINUS PONDEROSA [ponderosa (western yellow) pine]													
35.600-7171920.0		1971	FALKLAND	BC	CAN	50.30	119.33	685	B	49.27	83	85.0	
35.600-7172100.0		1971	PRITCHARD #1	BC	CAN	50.46	119.47	490	B	51.64	83	92.0	
35.600-7172110.0		1971	PRITCHARD #2	BC	CAN	50.46	119.47	655	B	45.94	83	69.0	
35.600-7172120.0		1971	PRITCHARD #3	BC	CAN	50.46	119.47	840	B	50.50	83	84.0	
(35.900) PINUS RESINOSA [red (Norway) pine]													
35.900-5330590.0		1953	STURGEON FALLS	ONT	CAN	46.22	79.55		N/A	8.62	83	31.0	
35.900-5780350.0		1957	DELTA COUNTY	MICH	USA	46.00	87.00		N/A	8.57	83	92.0	
35.900-6030280.0		1960	P.N.F.I., CENTRE LK. PK.	ONT	CAN	45.57	77.30	200	N/A	8.40	83	94.0	
35.900-6630490.0		1966	C.F.B. PETAWAWA	ONT	CAN	46.01	77.21	175	B	9.61	79	92.6	
35.900-6632340.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	150	B	8.30	83	78.0	
35.900-6632360.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160	N/A	9.35	83	55.0	
35.900-6730620.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.30	190	B	9.99	79	84.7	
35.900-6830060.0		1968	SIOUX LOOKOUT	ONT	CAN	50.04	91.57	370	B	7.17	79	86.3	18-21m, 140-150y
35.900-6930240.0		1969	DRIFTWOOD PROV. PARK	ONT	CAN	46.11	77.51	170	B	8.47	79	93.8	
35.900-6931500.0		1969	HIGHVIEW	ONT	CAN	45.58	77.19	120	B	8.90	83	100.0	FIRST KILN
35.900-6931510.0		1969	HIGHVIEW	ONT	CAN	45.58	77.19	120	B	8.50	83	100.0	FIRST KILN
35.900-6931510.2		1969	HIGHVIEW	ONT	CAN	45.58	77.19	120	B	8.60	83	100.0	THIRD KILN
35.900-6931520.0		1969	HIGHVIEW	ONT	CAN	45.58	77.19	120	B	8.60	83	88.0	FIRST KILN
35.900-6931540.0		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	9.45	79	98.2	FIRST KILN
35.900-6931540.2		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	8.10	83	100.0	THIRD KILN
35.900-6931550.0		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	8.95	79	99.8	FIRST KILN

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35.900-6931550.2		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	8.70	83	97.0	THIRD KILN
35.900-6931560.0		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	9.00	79	97.7	FIRST KILN
35.900-6931560.2		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	8.50	83	55.0	THIRD KILN
35.900-6931570.0		1969	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B	8.55	79	99.6	FIRST KILN
35.900-6931580.1		1969	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.34	210	B	9.30	83	88.0	SECOND KILN
35.900-6931580.2		1969	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.34	210	B	9.40	83	100.0	THIRD KILN
35.900-6931590.0		1969	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.34	210	B	8.50	79	99.8	FIRST KILN
35.900-7010280.0		1970	BEAVER LAKE	NS	CAN	44.14	65.20	140	B(10)	7.58	84	98.0	15-30cm, 9m, 20-30y
35.900-7010310.0		1970	TRACY	NB	CAN	45.43	66.42	60	B(5)	8.40	83	100.0	1st KILN, 15-38cm
35.900-7023040.0		1970	NORWAY BAY	QUE	CAN	45.32	76.26	80	B	8.45	84	98.0	
35.900-7030150.0		1970	ALICE	ONT	CAN	45.45	77.19	150	B	8.91	79	100.0	
35.900-7030170.0		1970	C.F.B. PETAWAWA	ONT	CAN	45.59	77.22	140	S	10.77	84	51.5	FIRST KILN
35.900-7030180.0		1970	C.F.B. PETAWAWA	ONT	CAN	46.00	77.19	150	S	8.52	84	98.0	FIRST KILN
35.900-7030190.0		1970	C.F.B. PETAWAWA	ONT	CAN	45.59	77.22	140	S	9.36	84	99.5	FIRST KILN
35.900-7030200.0		1970	A.E.C.L.	ONT	CAN	46.01	77.21	180	B(5)	9.62	84	97.5	FIRST KILN
35.900-7030210.0		1970	DRIFTWOOD PROV. PARK	ONT	CAN	46.11	77.51	150	S	9.27	84	93.5	FIRST KILN
35.900-7030220.0		1970	DRIFTWOOD PROV. PARK	ONT	CAN	46.11	77.51	150	S	7.55	84	99.0	FIRST KILN
35.900-7030230.0		1970	DRIFTWOOD PROV. PARK	ONT	CAN	46.11	77.51	150	B(3)	8.10	84	94.5	FIRST KILN
35.900-7030240.0		1970	DRIFTWOOD PROV. PARK	ONT	CAN	46.11	77.51	150	S	8.80	83	100.0	FIRST KILN
35.900-7030250.0		1970	ELDRIDGE TOWNSHIP	ONT	CAN	47.00	79.30	310	B	7.77	85	99.5	21-29m, 185y
35.900-7030260.0		1970	MACDIARMID	ONT	CAN	49.18	88.05	370	B	8.00	79	98.3	1stKL, 25-51cm, 105y
35.900-7030270.0		1970	AGAWA BAY	ONT	CAN	47.20	84.38	210	B(5)	8.38	84	95.5	10-15m, 40-70y
35.900-7030290.0		1970	ATIKOKAN	ONT	CAN	48.58	91.47	410	B(30)	8.80	83	97.0	27-31m, 85-95y
35.900-7030300.0		1970	FRENCH LAKE	ONT	CAN	48.41	91.47	440	B(45)	8.73	84	99.5	38-40m, 200-250y
35.900-7033910.0		1970	STONECLIFFE	ONT	CAN	46.12	77.58	210	B	7.65	79	73.5	
35.900-7033920.0		1970	STONECLIFFE	ONT	CAN	46.12	77.58	210	N/A	7.61	79	78.3	
35.900-7232200.0		1972	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	S	9.10	83	98.0	FIRST EXTRACTION
35.900-7232220.0		1972	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B(3)	9.60	83	100.0	FIRST EXTRACTION
35.900-7232230.1		1972	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	B(3)	8.85	85	93.5	SECOND EXTRACTION
35.900-7331400.0		1973	C.F.B. PETAWAWA	ONT	CAN	45.58	77.19	120	S	8.07	84	98.0	
35.900-7807560.0		1978	ROWSELLS BROOK	NFLD	CAN	49.14	56.22	270	B	6.82	85	59.0	
35.900-8300683.0		1983	ALEXANDER BAY STATION	NFLD	CAN	48.41	54.05	120	B	7.49	85	72.0	
(36.100) PINUS RIGIDA (pitch pine)													
36.100-8430068.0		1984	LONG MOUNTAIN	ONT	CAN	44.29	76.00	150	B(75)	8.58	84	95.0	
(36.190) PINUS STROBIFORMIS (southwestern white pine)													
36.190-8480008.0		1984	LINCOLN NAT. FOREST	NM	USA	33.00	105.00		N/A	207.98	84	69.0	WEEVIL RESISTANT
(36.200) PINUS STROBUS [eastern white (Weymouth) pine]													
36.200-5920072.0		1959	ST CHARLES DE MANDEVILLE	QUE	CAN	46.17	73.25	214	N/A	19.73	84	50.5	
36.200-5930071.0	2695.00	1959	P.N.F.I., SQUIRREL RD.	ONT	CAN	45.53	77.33	230	B	15.43	84	79.5	
36.200-6080062.0	2875.00	1960	HAYWARD, SAWYER CO.	WIS	USA	46.00	91.25		N/A	17.85	84	23.5	
36.200-6120023.0	3896.00	1961	CHICOUTIMI	QUE	CAN	48.26	71.04		N/A	14.93	84	68.0	LAKE ST. JOHN
36.200-6130022.0	3785.00	1961	MONTGOMERY LK., P.N.F.I.	ONT	CAN	45.56	77.34		N/A	22.00	84	85.5	
36.200-6630220.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	150	S	15.79	80	86.5	65cm, 29-31m
36.200-6630250.0		1966	C.F.B. PETAWAWA	ONT	CAN	45.55	77.29	170	S	17.13	85	78.5	29cm, 22m, 82y
36.200-6630280.0		1966	C.F.B. PETAWAWA	ONT	CAN	45.55	77.29	170	S	17.41	82	98.1	44cm, 24m, 80y
36.200-6630290.0		1966	C.F.B. PETAWAWA	ONT	CAN	45.55	77.29	170	N/A	14.75	85	54.7	
36.200-6630330.0		1966	C.F.B. PETAWAWA	ONT	CAN	45.55	77.29	170	S	16.10	83	64.0	60cm, 26m, 81y
36.200-6630430.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	150	S	17.54	83	60.0	58cm, 28m, 96y

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36.200-6630440.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	150	S	15.05	83	65.0	60cm, 30m, 133y
36.200-6630470.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	150	S	13.70	78	31.5	76cm, 96y
36.200-6630480.0		1966	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	150	B(10)	13.23	82	74.5	
36.200-6632450.0	6189.00	1966	PETAWAWA RIVER, P.N.F.I.	ONT	CAN	45.56	77.33	150	S	12.46	84	35.0	
36.200-6632460.0	6190.00	1966	P.N.F.I., FUELWOOD AREA	ONT	CAN	46.00	77.30	200	B	13.71	84	26.5	
36.200-6730070.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.28	200	B	16.99	78	89.5	
36.200-6730090.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.28	200	N/A	18.60	83	39.0	31cm, 15m, 50y
36.200-6730110.0		1967	P.F.E.S. RACE HORSE RD.	ONT	CAN	45.55	77.27	150	N/A	26.30	83	95.0	40cm, 16m, 55y
36.200-6730120.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.28	200	N/A	16.85	78	37.0	31cm, 15m, 53y
36.200-6730130.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.28	200	N/A	15.30	78	65.5	26cm, 14m, 49y
36.200-6730170.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.56	77.33	152	N/A	20.54	78	76.0	34cm, 14m, 53y
36.200-6730190.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.57	77.28	200	N/A	19.25	78	80.0	
36.200-6731760.0		1967	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.00	77.27	170	B	22.41	83	58.0	
36.200-7001210.0		1970	NEW BAY POND	NFLD	CAN	49.14	55.32		B(15)	17.21	78	73.0	51cm, 17-18m, 100y
36.200-7011270.0		1970	CAMBRIDGE TOWNSHIP	NB	CAN	45.50	66.05	60	B(5)	17.44	78	51.5	
36.200-7031230.0		1970	ATIKOKAN	ONT	CAN	48.38	92.14	400	N/A	11.65	78	67.5	27-30m, 135y
36.200-7031250.0		1970	ELDRIDGE TOWNSHIP	ONT	CAN	47.00	79.30	310	B	13.74	83	66.0	26-34m, 185y
36.200-7031280.0		1970	PARRY SOUND	ONT	CAN	45.20	79.58	210	B(3)	17.36	83	30.0	24-30m, 100-120y
36.200-7031290.0		1970	ANTLER LAKE	ONT	CAN	47.36	83.42	440	B(14)	14.29	78	70.5	24-34m, 150-200y
36.200-7031320.0		1970	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.29	200	S	23.30	83	52.0	
36.200-7031340.0		1970	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.29	200	N/A	23.97	78	97.5	
36.200-7031350.0		1970	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.29	200	N/A	14.77	78	78.0	
36.200-7031370.0		1970	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.29	200	N/A	19.57	78	91.5	
36.200-7230010.0		1972	C.F.B. PETAWAWA	ONT	CAN	45.53	77.30	200	B(2)	20.65	83	47.0	
36.200-7230020.0		1972	BIGGAR LAKE, PETAWAWA	ONT	CAN	45.53	77.30	206	S	21.36	83	90.0	
36.200-7230030.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	N/A	17.90	83	42.0	
36.200-7230040.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.58	77.27	180	S	22.91	83	85.0	51cm, 21m
36.200-7230060.0		1972	C.F.B. PETAWAWA	ONT	CAN	45.53	77.30	200	S	14.35	83	82.0	
36.200-7230070.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	170	N/A	18.57	83	44.0	
36.200-7230080.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	19.14	83	92.0	
36.200-7230090.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	20.99	83	96.0	
36.200-7230110.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	N/A	19.94	83	84.0	
36.200-7230120.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	20.67	83	90.0	
36.200-7230130.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(2)	21.25	83	79.0	
36.200-7230140.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(2)	22.16	83	79.0	
36.200-7230150.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	20.10	83	64.0	
36.200-7230170.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	25.10	83	86.0	
36.200-7230190.0		1972	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.55	77.25	170	B(4)	24.60	83	53.0	
36.200-7230200.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	20.40	83	88.0	
36.200-7230220.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	23.37	83	92.0	
36.200-7230230.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	N/A	20.83	83	71.0	
36.200-7230240.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	22.19	83	96.0	
36.200-7230250.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	24.05	83	86.0	
36.200-7230260.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	20.52	83	99.0	
36.200-7230270.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	S	22.45	83	79.0	
36.200-7230290.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(2)	20.69	83	81.0	
36.200-7230300.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.55	77.25	170	S	27.50	83	98.0	
36.200-7230310.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.55	77.25	170	S	21.60	83	76.0	
36.200-7230320.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.55	77.25	170	S	16.80	83	55.0	
36.200-7230340.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.55	77.25	170	S	15.90	83	65.0	
36.200-7230350.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	200	B(3)	22.10	83	82.0	
36.200-7230370.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.58	77.25	168	S	16.70	83	52.0	46cm, 25m
36.200-7230380.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.58	77.25	170	S	15.40	83	92.0	
36.200-7230390.0		1972	BIGGAR LAKE, C.F.B.	ONT	CAN	45.53	77.30	206	S	26.20	83	56.0	
36.200-7230400.0													

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
36. 200-7230410. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	S	18. 10	83	58. 0	
36. 200-7230420. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	S	21. 20	83	57. 0	
36. 200-7230430. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	S	17. 10	83	83. 0	
36. 200-7230440. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	S	22. 20	83	65. 0	
36. 200-7230450. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	S	14. 30	83	81. 0	
36. 200-7230470. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	200	N/A	17. 70	83	29. 0	FIRST EXTRACTION
36. 200-7230470. 5		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45. 53	77. 30	206	N/A	19. 30	83	82. 0	
36. 200-7331450. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 26	180	N/A	16. 20	83	97. 0	
36. 200-7331460. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	46. 00	77. 25	160	N/A	19. 50	83	82. 0	
36. 200-7331470. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 24	160	N/A	13. 70	83	84. 0	
36. 200-7331480. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 25	160	N/A	19. 80	83	97. 0	
36. 200-7331490. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 25	160	S	10. 80	83	62. 0	
36. 200-7331500. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 24	160	S	15. 60	83	67. 0	56cm, 27m
36. 200-7331510. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 25	180	S	25. 40	83	97. 0	
36. 200-7331520. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 26	180	B(2)	20. 50	83	64. 0	
36. 200-7331530. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 24	160	S	16. 40	83	56. 0	
36. 200-7331540. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 24	160	S	13. 80	83	100. 0	
36. 200-7331550. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 26	180	S	14. 90	83	93. 0	
36. 200-7331560. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 59	77. 26	180	B(3)	15. 17	83	81. 0	
36. 200-7331570. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	46. 00	77. 25	160	N/A	20. 60	83	76. 0	
36. 200-7331580. 0		1973	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 24	160	S	16. 50	83	95. 0	
36. 200-7735540. 0		1977	TOWNSHIP 22, RANGE 11	ONT	CAN	46. 54	83. 48	430	S	11. 40	78	69. 0	
36. 200-7735570. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	14. 10	78	91. 0	
36. 200-7735580. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	12. 85	78	90. 0	
36. 200-7735590. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	13. 28	78	89. 5	
36. 200-7735600. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	15. 22	78	98. 5	
36. 200-7735610. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	11. 34	83	32. 0	
36. 200-7735650. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	18. 45	78	96. 0	
36. 200-7735660. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47. 53	83. 10	400	S	14. 88	78	97. 5	
36. 200-7735670. 0		1977	PAUDASH TOWNSHIP	ONT	CAN	47. 16	81. 45	400	S	13. 37	78	88. 0	91cm, 18m
36. 200-7735680. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	16. 88	78	98. 5	66cm, 24m
36. 200-7735690. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	15. 99	78	99. 5	
36. 200-7735700. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	12. 62	78	92. 0	
36. 200-7735710. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	12. 09	78	98. 0	
36. 200-7735720. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	17. 31	78	99. 0	
36. 200-7735730. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	15. 88	78	91. 0	
36. 200-7735740. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46. 08	80. 50	210	S	16. 81	78	91. 0	
36. 200-7735750. 0		1977	MACAULEY TOWNSHIP	ONT	CAN	45. 06	79. 18	270	B*	19. 95	78	98. 0	
36. 200-7735780. 0		1977	MARIA TOWNSHIP	ONT	CAN	46. 00	78. 09	290	B	16. 76	78	98. 5	B(10-15)
36. 200-7735790. 0		1979	DEEP RIVER	ONT	CAN	46. 06	77. 29	115	B(5)	15. 08	78	97. 0	80cm, 25m
36. 200-7931210. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	19. 71	83	100. 0	
36. 200-7931220. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	20. 83	83	98. 0	46-56cm, 18-28m
36. 200-7931230. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	20. 93	83	100. 0	
36. 200-7931240. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	18. 37	83	97. 0	
36. 200-7931250. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	16. 03	83	100. 0	
36. 200-7931260. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	19. 20	83	100. 0	
36. 200-7931270. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	17. 76	83	99. 0	
36. 200-7931280. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	16. 04	83	95. 0	
36. 200-7931290. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	15. 62	83	100. 0	
36. 200-7931300. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	19. 90	83	98. 0	
36. 200-7931310. 0		1979	CFB PETAWAWA	ONT	CAN	45. 59	77. 23	150	S	20. 32	83	100. 0	46-56cm, 18-28m
36. 200-8100146. 0		1981	GREAT RATTLING BROOK	NFLD	CAN	48. 58	55. 32	30	B	20. 68	85	88. 5	
36. 200-8233380. 0		1982	PETAWAWA NAT. FOR. INST.	ONT	CAN	45. 58	77. 29	200	B(4)	11. 60	84	77. 0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
(36.300) PINUS SYLVESTRIS [Scotch (Scots) pine]													
36.300-7081650.0		1970	ORLOVSK OBLAST		SUN	53.00	35.00E		B	6.82	84	85.0	
36.300-7081660.0		1970	KIEV OBLAST		SUN	50.00	30.00E		B	6.80	84	62.0	
36.300-7082000.0		1970	ELVA, ESTONIAN SSR		SUN	58.20	26.00E		B	5.80	83	80.0	
36.300-7181900.0		1971	VORU, ESTONIAN SSR		SUN	57.50	27.00E		B	6.00	83	73.0	
36.300-7181910.0		1971	VALGAMAA, ESTONIAN SSR		SUN	57.45	26.00E		B	6.30	83	83.0	
36.300-7333490.0		1973	THESSALON	ONT	CAN	46.15	83.24		S	9.80	83	100.0	V-1378
36.300-7333500.0	9987.00	1973	ANGUS	ONT	CAN	44.19	79.53		S	1.65	84	94.5	V-1380-62
36.300-7383420.0		1973	MURAT		FRA	45.06	2.15E		S	8.10	83	100.0	V-1133-62
36.300-7383670.0		1973	MORAYSHIRE		SCO	57.33	3.29		S	7.10	83	84.0	ST.3177-62
36.300-7486670.0		1974	VILNIAUS, LITHUANIAN SSR		SUN	54.38	25.28E	100	B	6.60	84	57.0	45cm, 31m, 120y
36.300-7486680.0		1974	JONAVOS, LITHUANIAN SSR		SUN	55.15	24.20E	110	B	6.37	84	78.0	42cm, 28m, 110y
36.300-7486690.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	5.86	84	92.5	
36.300-7486700.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	5.77	84	52.0	
36.300-7486740.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	6.15	84	97.0	
36.300-7486760.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	6.12	84	78.5	
36.300-7486780.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	6.37	84	48.0	
36.300-7486790.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	5.43	84	87.0	
36.300-7486800.0		1974	KAUNO, LITHUANIAN SSR		SUN	54.45	24.05E	100	N/A	6.15	84	86.5	
36.300-7581490.0		1975	TARTU RES FOR ESTONIAN		SUN	58.22	26.40E	60	B	5.30	85	95.0	
36.300-8181100.0		1981	NOVOSIBIRSKAYA OBLAST		SUN	55.00	80.00E		B	6.82	84	78.5	
36.300-8181110.0		1981	MARIISKAYA OBLAST		SUN	56.00	47.00E		B	6.30	84	95.5	
36.300-8181120.0		1981	MARIISKAYA OBLAST		SUN	56.00	47.00E		B	6.55	84	90.0	
36.300-8181130.0		1981	TATARSKAYA, ASSR		SUN	55.00	50.00E		B	6.72	84	99.0	
36.300-8181140.0		1981	TATARSKAYA, ASSR		SUN	55.00	50.00E		B	7.02	84	85.0	
36.300-8181150.0		1981	VORONEZHSKAYA OBLAST		SUN	50.30	40.00E		B	8.60	84	92.0	
36.300-8181160.0		1981	ORLOVSKAYA OBLAST		SUN	52.30	37.00E		B	7.27	84	75.5	
36.300-8181170.0		1981	KIEVSKAYA OBLAST		SUN	50.30	30.30E		B	7.54	84	85.0	
36.300-8181180.0		1981	KRASNOYARSKY KRAI		SUN	60.00	90.00E		B	5.62	84	92.5	
36.300-8181190.0		1981	KALUZHKAYA OBLAST		SUN	54.00	35.00E		B	7.38	84	76.5	
36.300-8181200.0		1981	SMOLENSKAYA OBLAST		SUN	55.00	32.00E		B	7.33	84	94.0	
36.300-8181280.0		1981	GROENENDAAL #5028 SOR		BEL	50.50	4.21E		N/A	8.29	84	45.5	
36.300-8380654.0		1983	LUZNA, OLESNA		CSK	50.10	13.70E	390	N/A	6.81	84	73.0	FROM K. VANCURA
36.300-8380655.0		1983	LITOMERICE, ROUDNICE		CSK	50.30	14.20E	150	N/A	7.14	84	75.0	FROM K. VANCURA
36.300-8380656.0		1983	KURIM TISNOV		CSK	49.30	16.30E	400	N/A	5.51	84	78.5	FROM K. VANCURA
36.300-8430094.0		1984	STURGEON LAKE PLAINS	ONT	CAN	46.01	77.25	160	S	6.48	85	97.0	V900 FROM SOC
36.300-8430095.0		1984	STURGEON LAKE PLAINS	ONT	CAN	46.01	77.25	160	S	7.08	85	99.5	V612 FROM SOC
36.300-8430096.0		1984	STURGEON LAKE PLAINS	ONT	CAN	46.01	77.25	160	S	7.36	85	97.5	V907 FROM SOC
(36.350) PINUS SYLVESTRIS var. MONGOLICA													
36.350-7393100.0	9970.00	1973	HEILONGJIANG PROV.		CHN	46.00	126.00E		B	7.50	83	84.0	
36.350-8380670.0		1983	SUNG-HUA-CHIANG		CHN	46.00	127.00E	700	N/A	7.17	85	79.5	
36.350-8480976.0		1984	KIRIN PROVINCE		CHN	43.00	125.00E		N/A	6.31	85	26.6	
(36.370) PINUS SYLVESTRIS var. RIGENSIS													
36.370-0080001.0		1983	RIGA		SUN	56.53	24.08E		N/A	6.23	84	83.0	VIA VERSEPUY
(36.600) PINUS THUNBERGII (Japanese black pine)													
36.600-7484340.0		1974	AOMORI PREFECTURE		JPN	40.47	140.20E	60	B	11.70	84	67.0	32cm, 16m, 51y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
36.600-8380673.0		1983	CHANG-WEI, SHANTUNG PROV.		CHN	36.00	120.00E	100	N/A	10.72	85	77.2	
(36.700) PINUS WALLICHIANA [Himalayan (Bhutan) pine]													
36.700-8380659.0		1983	SAGAIMATHA, JUNBESI FOR.		NPL	27.34	86.34E	2760	N/A	41.96	84	91.0	
(36.950) PLADYCLADUS ORIENTALIS													
36.950-8330018.0		1983	N PELHAM TWP., FONTHILL	ONT	CAN	43.02	79.17	200	B(4)	20.48	83	66.0	EXOTIC, 6-10cm, 3-4m
(38.600) POPULUS GRANDIDENTATA (largetooth aspen)													
38.600-7830530.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.05	85	95.5	20-30cm, 14-20m
38.600-7830540.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.09	85	100.0	
38.600-7830550.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.08	85	96.5	
38.600-7830560.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.08	85	89.0	
38.600-7830570.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.09	85	96.0	
(38.800) POPULUS TREMULOIDES (trembling aspen)													
38.800-7830430.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.11	85	61.0	15-20cm, 12-18m
38.800-7830440.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.12	85	74.5	
38.800-7830450.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.12	85	73.0	
38.800-7830460.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.07	85	71.5	
38.800-7830470.0		1978	PETAWAWA NAT. FOR. INST.	ONT	CAN	46.01	77.25	150	N/A	.07	85	56.0	
(40.200) PSEUDOTSUGA MENZIESII (douglas-fir)													
40.200-6470290.0		1964	QUESNEL	BC	CAN	53.14	122.30	820	B	9.50	84	26.5	
40.200-6671200.0		1966	ELK VALLEY VANCOUVER IS.	BC	CAN	49.45	125.50	910	B	9.57	83	48.0	
40.200-6772340.0		1967	NELSON	BC	CAN	49.30	117.16	820	B	9.36	83	65.0	
40.200-6772350.0		1967	FRANKLIN RIVER	BC	CAN	49.06	124.46	150	B	8.97	83	73.0	
40.200-6782360.0		1967	PACKWOOD	WASH	USA	46.34	121.40	655	B	8.58	83	23.0	
40.200-6871090.0		1968	PINETAN	BC	CAN	50.45	119.55	840	B	10.89	84	43.5	
40.200-6871100.0		1968	SHUSWAP LAKE	BC	CAN	50.55	119.25	1070	B	10.74	85	55.4	
40.200-6971750.0		1969	HORSEFLY	BC	CAN	52.18	121.19	820	B(15)	8.33	83	62.0	
40.200-6981760.0		1969	EUGENE	OR	USA	44.01	123.23	210	S	10.97	83	64.0	30cm, 18m
40.200-6981770.0		1969	HAPPY CAMP	CAL	USA	41.57	123.30	975	S	12.62	83	58.0	8cm, 37m
40.200-6981780.0		1969	COALDALE	COLO	USA	38.20	105.50	2300	B(50)	14.06	83	76.0	
40.200-6981790.0		1969	CLEAR CREEK	NM	USA	36.03	106.50	2870	B*	12.41	83	80.0	B(10-100)
40.200-7172040.0		1971	ADAMS LAKE	BC	CAN	51.26	119.28	530	B	8.94	83	66.0	
40.200-7175610.0		1971	HAT CREEK	BC	CAN	50.51	121.30	1000	B	12.01	84	36.5	
40.200-7971820.0		1979	THADDEUS LAKE	BC	CAN	51.55	123.40	1130	B(10)	10.63	83	87.0	6-18m, 50-200y
40.200-8370637.0		1983	THIRD LAKE	BC	CAN	49.05	124.19	250	B(10)	10.39	84	97.0	9-18m, 25-35y
40.200-8370638.0		1983	CASSIDY	BC	CAN	49.02	123.52	45	B(10)	9.46	84	91.0	7-15m, 35-50y
(40.250) PSEUDOTSUGA MENZIESII var. GLAUCA (interior douglas-fir)													
40.250-8285430.0		1982	OTERO COUNTY	NM	USA	33.00	105.30		N/A	14.40	84	78.5	
40.250-8480009.0		1984	CLEAR CREEK	NM	USA	35.30	106.00		N/A	13.29	84	86.0	BLUE NEEDLES
(43.800) ROBINIA PSEUDOACACIA (black locust)													
43.800-8230250.0		1982	LINCOLN TOWNSHIP	ONT	CAN	43.10	79.29	172	S	18.70	83	83.0	21cm, 11m, 34y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
43.900-8330025.0		1983	CHORLEY PK, TORONTO	ONT	CAN	43.41	79.23	122	B(3)	23.02	84	55.0	8-15cm, 4-13m
(44.920) SORBUS AMERICANA (American mountain ash)													
44.920-8430060.0		1984	INTERSECT'N HWY 127 & 60	ONT	CAN	45.29	78.11	400	B(3)	1.89	84	21.5	4cm, 4m
(46.200) THUJA OCCIDENTALIS (eastern white cedar)													
46.200-6030510.0		1960	PETAWAWA NAT. FOR. INST.	ONT	CAN	45.55	77.28	180	N/A	1.56	84	48.0	RACE HORSE RAPIDS
46.200-8233290.0	23001.00	1982	GOLDEN LAKE RENFREW CO.	ONT	CAN	45.35	77.14		B	1.16	84	73.0	
(46.400) THUJA PLICATA (western red cedar)													
46.400-7272330.0		1972	BC-400, VANCOUVER IS.	BC	CAN	50.11	125.48	430	B	1.15	83	39.0	
46.400-7473130.0		1974	SHUSHAP LAKE	BC	CAN	50.53	119.22	400	B	1.06	83	50.0	
46.400-8370633.0		1983	LANTZVILLE	BC	CAN	49.14	124.00	90	B(6)	.88	84	41.0	25-30m, 60-90y
46.400-8370634.0		1983	YELLOW POINT	BC	CAN	49.03	123.48	61	B(15)	.90	84	40.5	15-35m, 35-80y
(48.100) TSUGA CANADENSIS (eastern hemlock)													
48.100-8430073.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	2.78	84	90.5	43cm, 18m
48.100-8430074.0		1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	2.80	84	82.0	46cm, 23m
48.100-8430075.0		1984	DENBIGH	ONT	CAN	45.09	77.10	300	B(3)	3.13	84	66.0	35-45cm, 18m
(48.500) TSUGA MERTENSIANA (mountain hemlock)													
48.500-8270555.0		1982	SPROAT LAKE	BC	CAN	49.18	125.07	900	B(10)	2.14	85	65.0	40cm, 15-30m, 150y
48.500-8270556.0		1982	THEODOSIA	BC	CAN	50.10	126.30	1150	B(4)	2.58	85	32.0	30cm, 24m, 100y
(49.100) ULMUS AMERICANA [white (American) elm]													
49.100-7830520.0		1978	PEMBROKE	ONT	CAN	45.48	77.08	150	S	6.83	84	38.0	
49.100-8430032.0		1984	PEMBROKE	ONT	CAN	45.48	77.08	150	S	4.74	84	36.5	
49.100-8430033.0		1984	PEMBROKE	ONT	CAN	45.48	77.08	150	S	5.87	84	33.0	
(49.115) ULMUS GLABRA (Scotch elm)													
49.115-8580008.0		1985	HELSINKI		FIN	60.16	25.00E		B(25)	10.35	85	29.0	
(49.120) ULMUS LAEVIS (European white elm)													
49.120-8580009.0		1985	HELSINKI		FIN	60.16	25.00E		B(6)	6.37	85	60.0	

APPENDICES
ANNEXES

A. Key for country codes
Code des pays

B. Key for province and state codes
Code des provinces et des États américains

APPENDIX A
ANNEXE A

Key for country codes[1]
Code des pays[2]

Country Code Code des pays	Meaning Signification
BEL	BELGIUM/BELGIQUE
BRG	BULGARIA/BULGARIE
CAN	CANADA
CHN	CHINA/CHINE
CSK	CZECHOSLOVAKIA/TCHÉCOSLOVAQUIE
CUB	CUBA
DEU	WEST GERMANY/RÉPUBLIQUE FÉDÉRALE D'ALLEMAGNE
FIN	FINLAND/FINLANDE
FRA	FRANCE
GTM	GUATEMALA
HND	HONDURAS
ITA	ITALY/ITALIE
JPN	JAPAN/JAPON
MEX	MEXICO/MEXIQUE
NPL	NEPAL/NÉPAL
POL	POLAND/POLOGNE
ROM	ROMANIA/ROUMANIE
SCO	SCOTLAND/ÉCOSSE
SUN	USSR/URSS
SWE	SWEDEN/SUÈDE
THA	THAILAND/THAÏLANDE
USA	UNITED STATES/ÉTATS-UNIS

[1]From International Organization for Standardization (1981).
[2]De l'Organisation internationale de normalisation (1981).

APPENDIX B
ANNEXE B

Key for province and state codes
Code des provinces et des États américains

Province and state code Code des provinces et des États américains	Meaning Signification
ALAS	ALASKA
ALTA	ALBERTA
BC	BRITISH COLUMBIA/COLOMBIE-BRITANNIQUE
CAL	CALIFORNIA/CALIFORNIE
COLO	COLORADO
ID	IDAHO
MAN	MANITOBA
ME	MAINE
MICH	MICHIGAN
MINN	MINNESOTA
NB	NEW BRUNSWICK/NOUVEAU-BRUNSWICK
NFLD	NEWFOUNDLAND/TERRE-NEUVE
NM	NEW MEXICO/NOUVEAU-MEXIQUE
NS	NOVA SCOTIA/NOUVELLE-ÉCOSSE
NY	NEW YORK
ONT	ONTARIO
OR	OREGON
PEI	PRINCE EDWARD ISLAND/ÎLE-DU-PRINCE-ÉDOUARD
QUE	QUÉBEC
SASK	SASKATCHEWAN
WASH	WASHINGTON
WIS	WISCONSIN
YT	YUKON TERRITORY/TERRITOIRE DU YUKON